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An Assessment of the Supplies of Natural Gas and Fuels for Generating Electricity in Ohio

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Presented To
Governor James A. Rhodes
Ohio Legislature
Public Utilities Commission of Ohio

Ohio Department of Energy
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SUMMARY

Section 4905 of the Ohio Revised Code requires that on July 1 and November 1 of each year Ohio's natural gas and electric utilities report forecasts of their projected fuel supply and demand for the ensuing twelve-month period. The statute further requires that the Ohio Department of Energy (ODOE) review each report and compare it to the Department's independently generated forecasts. This report represents ODOE's assessment of these individual forecasts and provides an aggregate forecast of Ohio's natural gas and electricity supply/demand outlook for the period November 1, 1979 through October 31, 1980.

Electricity

Ohio's electric consumption is likely to decline to a two percent annual growth rate for this reporting period. Since April of this year, statewide electric consumption, when compared to the same months a year before, has shown a steady reduction. With the increasing awareness on conservation and the unfavorable outlook in the economy the projected growth rate may be overstated.

Coal remains the primary source of fuel for electric generation. The planned coal stockpiles of the reporting utilities for the next twelve months are expected to be adequate.

The availability of fuel oil to be used for electricity generation is expected to be below normal levels for the year of 1980. This depressed supply availability may affect the peak generation capability of several utilities. ODOE believes that this situation could be ameliorated through a concerted effort toward load management planning augmented by additional consumer conservation education programs.

Further, ODOE recommends that the affected utilities begin investigating the availability of alternative sources of supply to meet fuel oil requirements.

Natural Gas

Ohio's natural gas utilities augmented their product supply during the 1978-1979 heating season through enhanced Ohio production and an increased share of imported liquefied natural gas. These acquisitions raised Ohio natural gas supply by 2.4 percent. Concurrently, in the residential and commercial sectors, consumption for natural gas has declined since 1973, due in part to conservation efforts on the part of consumers.

These two factors contribute to ODOE's belief that it is unlikely that Ohio will experience a shortage of natural gas during the 1979-1980 heating season. We also believe that the projected supply should be sufficient to meet demand for most large users during the non-heating season.

INTRODUCTION

This report has been prepared by the Ohio Department of Energy pursuant to Section 4905.14(E) of the Ohio Revised Code. The statute requires the Department of Energy to provide a summary, analysis and recommendations based on the Ohio public utilities' energy supply and demand projections for the twelve-month period beginning November 1, 1979. In accordance with Section 4905.14(D), a copy of each utility's November forecast was submitted to the Governor, Clerk of the Senate, the Legislative Clerk of the House of Representatives, and the Public Utilities Commission of Ohio on November 10, 1979. The utilities' forecasts and historical data are the primary input for this report. Several other sources of information have also been used. These include historic energy data developed by the Ohio Department of Energy, federal energy reports, publications from the American Gas Association and the Electric Power Research Institute, and others. A substantial and successful effort has been undertaken to develop a comprehensive data base and at the same time maintain the ability to provide timely analyses and forecasts.

Objectives

In the preparation of this report, the Ohio Department of Energy set forth the following major objectives:

1. To provide an adequate historic, energy-related data profile for identification of current status and future trends;
2. To provide analysis and interpretation of changes in energy supply and demand;

3. To provide an independent assessment of the adequacy of natural gas and electric energy supply for the upcoming twelve months; and
4. If a potential deficiency between supply and demand is identified, to suggest a strategy for implementation in order to prevent or mitigate any interruption or curtailment of service.

The basis for the information to be evaluated is supplied in part by the reports filed with the Ohio Department of Energy, federal reports, and the research and analysis of the Department of Energy.

Rules and Requirements for This Report

The administrative rules and forecasting requirements (OAC 1551:1-4 and 1551:1-5) became effective November 1, 1978. The present forecasting reports submitted by electric and gas utilities are in accordance with these rules.

It is necessary to differentiate between state energy consumption and production totals and the reporting utilities' totals. This is because the municipal utilities, industrial facilities and the rural electric cooperatives are not required to file the semi-annual report. This difference is actually very small (estimated to be about 6 percent for the electric figures and 0.5 percent for natural gas excluding self-help gas).

Ohio Department of Energy Forecasts

As part of its analysis, the Ohio Department of Energy makes independent forecasts to serve as validation checks. Early

identification of severe conditions permits advanced planning to avert possible undesirable consequences.

The Ohio Department of Energy has the capability to forecast monthly demand by utility and for the state as a whole within a reasonable level of error (less than 5 percent in most cases). Such forecasts are based on historical month-by-month actual consumption for both electricity and natural gas and other appropriate variables such as population, income, and temperature data. As in any forecast, certain important socio-economic conditions are assumed in the Ohio Department of Energy forecasts. These assumptions are stated below:

1. Energy demand generally follows its historic consumption pattern.
2. Socio-economic changes are minimal in affecting demand for energy in the short run.
3. The observed level of conservation will remain in effect.
4. Other specific assumptions are stated where appropriate.

Energy Supply Outlook

On the basis of utilities' projections, the supply outlook for the year ahead may be considered very satisfactory for natural gas and coal, but not as satisfactory for fuel oil for electric generation.

The projected supply of coal for electric generation appears to be equivalent to two months' average past monthly consumption for most utilities. This level of inventory is adequate provided that no major disruptions of coal delivery occur in the coming twelve months. As to the source of coal supply, Ohio has experienced increasing imports of low-sulfur coal from West Virginia and Kentucky this year due to

the implementation of EPA air quality control standards. The demand for low-sulfur coal will increase sharply if EPA applies more stringent air quality control measures. As a result of these regulations, Ohio is shifting its source of supply and becoming more dependent upon other states' coal.

The utilities' projected supply of oil for electric generation is not as adequate as desired. The primary reason for this situation is the nation's determination to reduce imports from foreign countries. The inventory levels of several utilities are projected to be less than 30 days. Two utility projections of thirty-day inventories were based on the assumption that there will be natural gas available for fuel substitution. The potential effect of the low levels of inventories in those utilities seems to be limited to peak power generation, which is a small fraction of the total electricity that can be sustained in the future.

The projected supply of natural gas shows an increase of 2.4 percent from last year. An increased supply and user conservation have virtually eliminated curtailments in the past year. No curtailment is expected for the coming year, even in the event of 10 percent colder than normal winter.

Due to the increased availability of natural gas, the Public Utilities Commission of Ohio has granted many major utilities' applications for accepting new natural gas hook-ups. In the meantime, the increased supply to the industrial sector will cause fuel-switching from oil to natural gas, thereby easing the potential effects of the low supply level of oil. The use of natural gas for generating electricity is a typical example.

Overview of This Report

The rest of the report is divided into two parts: electric energy and natural gas. Materials contained in these two parts are, for the most part, parallel in arrangement. They contain: (a) a profile of reporting utilities; (b) historic sources of supplies/ suppliers; (c) consumption history by sector, utility, and state; and (d) the utilities' forecast and the independent forecast by the Ohio Department of Energy. For the purpose of better illustration, the data are frequently displayed graphically.

ELECTRIC ENERGY

This section is based on the November forecasts filed by five groups of the Ohio major electric utilities. These groups are:

1. CCD - Cincinnati Gas and Electric (CG&E)
   Columbus and Southern Ohio Electric (C&SOE)
   Dayton Power and Light (DP&L)

2. CAPCO - Cleveland Electric Illuminating (CEI)
   Ohio Edison (OE) (and its subsidiary Pennsylvania Power)
   Toledo Edison (TE)
   Duquesne Light (not subject to reporting)

3. American Electric Power Company (AEP)
   Ohio Power Company (OP)
   Other out-of-state utilities not subject to reporting

4. Allegheny Power System (APS)
   Monongahela Power (MP)
   Other out-of-state utilities not subject to reporting

5. Ohio Valley Electric Corporation (OVEC)

Many of these utility groups operate across state boundaries. If historic data are reported by these groups, the specific features of energy consumption and production within the state will be lost. Thus, in the presentation of historic energy-related data, emphasis is placed on the Ohio portion.

Historic Patterns of Fuel for Electric Generation

Electricity is a form of energy transformed from many types of fuel. Coal is the predominant fuel used to generate electricity in Ohio. Other types of fuel used for generation of electricity include fuel oil, natural gas and nuclear fuel. The use of nuclear fuel for power generation began in this state in November, 1977.

Source/Supplier of Fuel for Electric Generation

Tables 1 and 2 list coal and oil deliveries to power plants located in Ohio. During the calendar year 1977, those power plants received over 51 million tons of coal, of which 63 percent was from Ohio. During the same period, oil receipts totaled 4.4 million barrels. For 1978, the picture is different due to the long coal strike which lasted from December 4, 1977 to March 20, 1978. Total coal receipts amounted to about 46 million tons, close to a 10 percent decrease from 1977. Of this total, 52 percent was from Ohio. Further reduction of Ohio coal deliveries is expected due to imposition of more stringent air quality standards in the near future. Figure 1 shows the drastic reduction in coal deliveries during January and February of last year. Figure 2 shows an approximate two hundred percent increase in oil deliveries for this same period.

Electric Generation by Type of Fuel

As stated earlier, coal is the main source of energy for electricity production in Ohio. During the calendar year 1978, 95 percent of the total electricity generated in Ohio was from coal, a reduction of 3 percent from a year ago; oil-generated electricity and nuclear-generated electricity increased about 2 percent. Table 3 and Figure 3 show the combined monthly totals of the reporting utilities' net generation from Ohio plants. The nuclear plant at Davis-Besse was shut down from April through June due to maintenance and safety measures. Historic power plant fuel consumption is displayed in Tabel 4.

Historic Patterns of Ohio Electric Consumption

Total electric consumption in the two years of 1976 and 1977 shows an 8 percent annual rate of growth. This growth is in contrast

Table 1 Source of Coal Supplies to Electric Utilities
(Ohio Portion)

(In Thousand Short Tons)

Month	Coal Districts								
	1	2	3	4	6	7&8	9	Other	Total
1977									
Jan	13.7	118.5	13.2	2,391.5	179.1	413.7	-----	290.6	3,420.3
Feb	14.4	113.6	27.6	3,237.9	259.6	483.4	111.2	223.9	4,471.6
Mar	2.4	101.8	-	2,832.0	259.0	800.5	169.4	-	4,165.1
Apr	2.2	102.0	21.4	2,412.5	211.5	715.8	145.5	402.8	4,013.7
May	36.9	128.6	-	2,458.4	193.6	225.5	141.6	252.2	3,436.8
June	15.3	138.8	92.5	3,194.2	228.4	711.7	115.1	295.2	4,791.2
July	9.6	141.3	65.2	2,621.9	160.8	522.4	112.9	492.3	4,126.4
Aug	13.3	193.5	72.0	3,080.3	221.0	662.7	167.2	538.6	4,948.6
Sept	20.0	220.3	95.8	2,948.9	292.6	920.5	144.6	337.5	4,980.2
Oct	33.6	165.1	92.4	3,075.5	305.5	1,106.6	172.3	359.2	5,310.1
Nov	16.0	174.1	85.4	3,162.2	200.9	1,022.5	186.9	586.1	5,434.1
Dec	6.4	93.0	89.2	930.0	61.0	615.6	137.2	170.7	2,103.1
Total	183.8	1,690.6	654.7	32,345.3	2,573.0	8,200.8	1,603.9	3,949.1	51,201.2
% of Total	0.4	3.3	1.3	63.2	5.0	16.0	3.1	7.7	
1978									
Jan	4.8	52.2	11.5	137.4	7.2	275.9	1.4	169.0	659.4
Feb	8.3	51.1	9.7	153.8	0.7	316.3	-	257.8	797.7
Mar	20.1	173.3	52.0	1,057.9	11.7	624.0	1.6	619.8	2,560.4
Apr	35.8	187.2	88.6	2,834.4	263.3	828.0	111.5	525.5	4,874.3
May	21.0	261.4	111.9	2,906.4	321.0	944.2	121.5	494.4	5,181.8
June	18.3	260.1	107.4	2,993.4	257.0	1,067.3	140.6	416.9	5,251.0
July	25.1	353.6	86.1	2,292.5	174.8	1,059.9	119.3	475.4	4,586.7
Aug	10.2	141.2	58.1	1,946.6	217.2	1,030.8	155.7	472.8	4,032.6
Sept	18.0	207.9	86.1	2,361.7	234.8	921.2	129.9	283.4	4,243.0
Oct	51.5	200.7	98.3	2,608.1	310.3	998.1	112.5	179.5	4,559.0
Nov	41.1	185.4	77.1	2,627.0	230.9	1,197.9	156.8	314.9	4,831.1
Dec	12.9	145.5	73.1	2,290.5	223.5	1,121.2	75.3	338.3	4,280.3
Total	267.1	2,219.6	859.9	24,209.7	2,252.4	10,384.8	1,126.1	4,547.7	45,567.3
% of Total	0.6	4.8	1.9	52.8	4.9	22.6	2.5	9.9	
1979									
Jan	---	176.9	45.2	2,296.6	241.5	1,026.7	129.6	392.0	4,308.5
Feb	5.7	103.4	52.7	2,124.4	237.9	901.7	124.5	285.6	3,335.9
Mar	.5	158.0	60.4	2,516.0	313.8	1,172.8	149.4	231.7	4,502.6
Apr	32.6	143.3	76.7	2,207.3	276.0	1,405.5	107.7	334.0	4,583.1
May	3.0	106.8	75.4	2,425.0	358.0	1,340.1	143.2	371.0	4,822.5
Jun	10.2	120.7	83.1	2,369.5	356.3	1,336.7	135.8	388.8	4,801.1
Jul	6.5	105.7	62.6	1,874.7	178.7	785.2	134.6	425.0	3,573.0
Aug	6.5	81.2	68.0	2,469.7	295.3	1,242.4	196.2	333.5	4,692.8

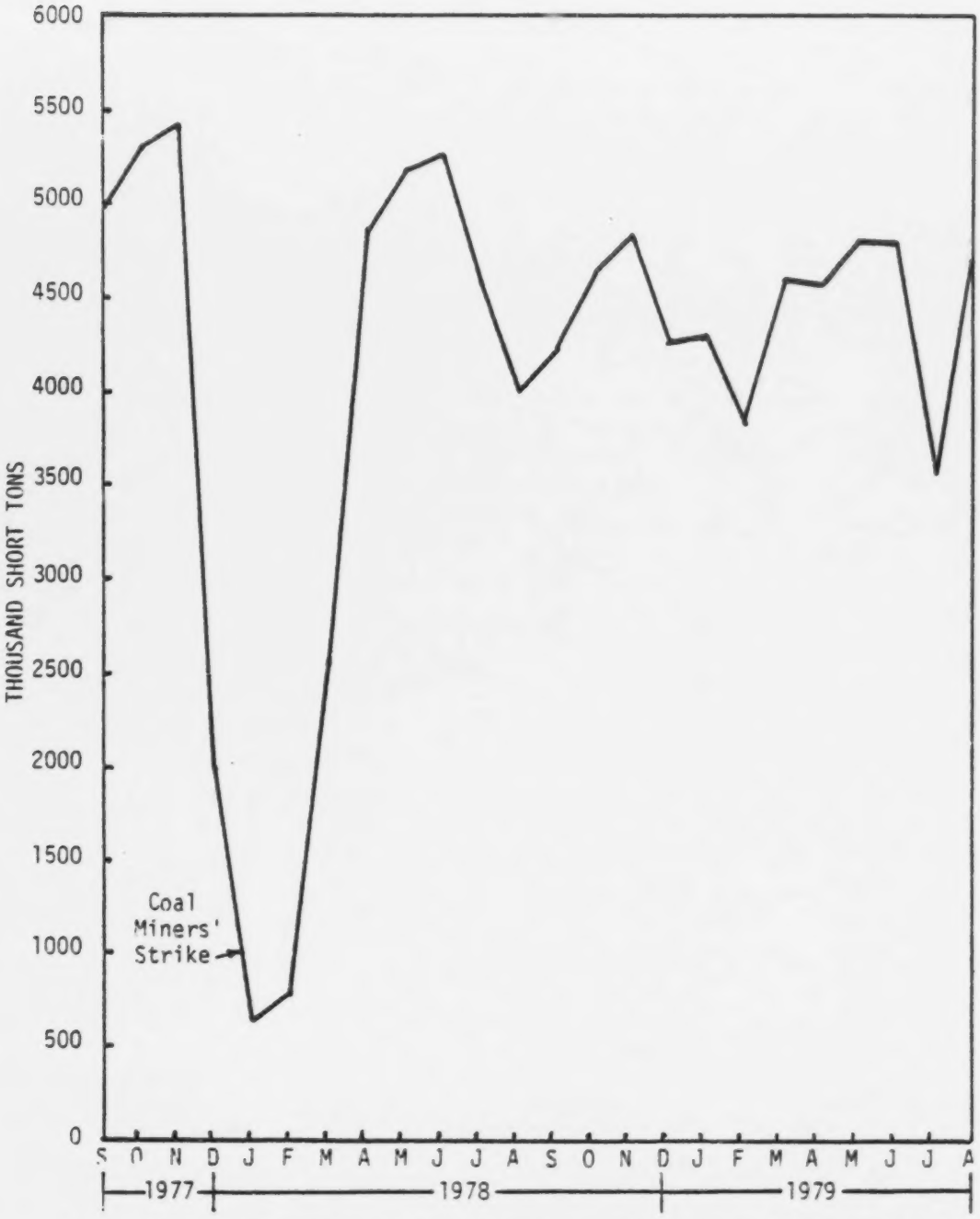
District
1. Eastern Pennsylvania
2. Western Pennsylvania
3. Northern West Virginia
4. Ohio
6. Panhandle in W. Virginia and Ohio
7. Southern No. 1 (in W. Virginia and Virginia)
8. Southern No. 2 (in W. Virginia, Virginia and Eastern Kantucky)
9. Western Kentucky

Other - Primarily from Wyoming and Utah

(For details, see Kaystone Coal Industry Manual, 1977 by McGraw Hill)

Source: Ohio Electric Utilities' FPC Form 423 and the Ohio Department of Energy

Figure 1 Monthly Coal Deliveries to Power Plants Located in Ohio
(September 1977 - August 1979)



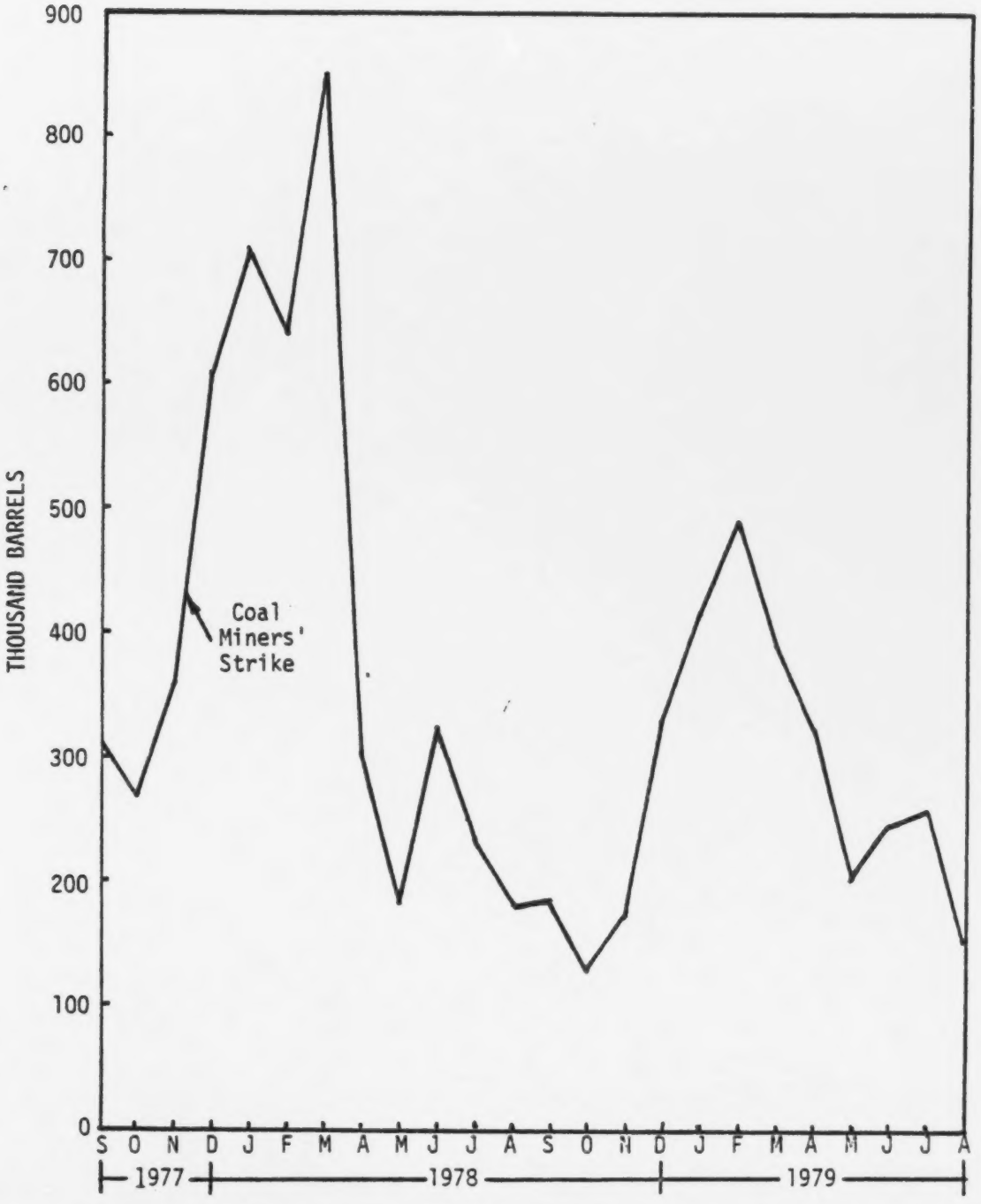
Source: Ohio Electric Utilities' FPC Form 423 and the Ohio Department of Energy.

Table 2 Major Oil Suppliers to Electric Utilities (Ohio Portion)
(Thousand Barrels)

Month	Allied	Marathon	McCarty	Standard	Union	Other	Total
1977							
Jan.	339.7	5.2	0.4	105.0	15.1	29.9	495.3
Feb.	189.8	0.8	---	202.8	1.4	26.5	421.3
Mar.	232.3	7.8	---	10.1	1.6	54.1	305.9
Apr.	328.9	3.5	---	16.7	0.4	28.4	377.9
May	214.9	5.5	---	15.2	3.5	35.3	274.4
June	217.3	4.1	---	10.5	4.1	26.6	262.6
July	348.8	7.3	7.3	26.9	12.4	5.0	407.7
Aug.	269.1	2.2	6.3	17.4	2.9	11.7	309.6
Sep.	265.0	10.6	9.7	13.7	2.5	4.9	306.4
Oct.	232.8	0.6	---	10.6	1.5	24.8	270.3
Nov.	302.2	6.5	10.7	25.9	---	17.2	362.5
Dec.	527.3	8.3	9.8	51.6	2.5	9.4	608.9
Total	3,468.1	62.4	44.2	506.4	47.9	273.8	4,402.8
% Total	78.8	1.4	1.0	11.5	1.1	6.2	
1978							
Jan.	607.4	7.3	13.3	67.6	3.1	62.1	706.8
Feb.	543.5	7.2	2.3	27.9	5.2	57.7	643.8
Mar.	588.1	11.4	86.4	47.0	10.1	108.2	851.2
Apr.	214.0	---	1.9	21.5	6.0	60.0	303.4
May	150.7	2.2	0.2	22.5	7.3	1.3	184.2
Jun.	281.1	1.0	---	17.6	9.0	16.1	324.8
Jul.	209.3	1.5	3.5	14.8	4.4	1.6	235.1
Aug.	161.9	1.5	---	12.5	4.8	1.9	182.6
Sep.	153.3	1.6	0.2	20.0	7.0	3.6	185.7
Oct.	105.4	1.2	---	16.1	4.9	4.9	132.5
Nov.	144.0	0.7	---	11.8	7.6	12.5	176.6
Dec.	305.5	3.3	---	10.2	8.1	2.1	329.2
Total	3,464.2	38.9	107.8	289.5	77.5	332.0	4,309.9
% Total	80.4	0.9	2.5	6.7	1.8	7.7	
1979							
Jan.	342.3	4.1	.6	27.1	14.5	29.1	417.7
Feb.	357.6	3.2	12.5	41.2	19.5	57.2	491.2
Mar.	346.1	1.5	4.6	23.3	12.3	1.6	389.4
Apr.	289.9	0.8	---	13.1	2.7	20.6	327.1
May	172.5	1.5	---	18.0	1.6	12.8	206.4
Jun.	206.8	0.4	---	22.5	2.8	16.5	249.0
Jul.	236.8	0.2	---	16.6	4.4	0.5	258.5
Aug.	120.6	0.4	---	31.8	2.6		155.4

Source: Ohio electric utilities' FPC Form 423 and the Ohio Department of Energy.

Figure 2 Monthly Oil Deliveries to Power Plants Located in Ohio
(September 1977 - August 1979)



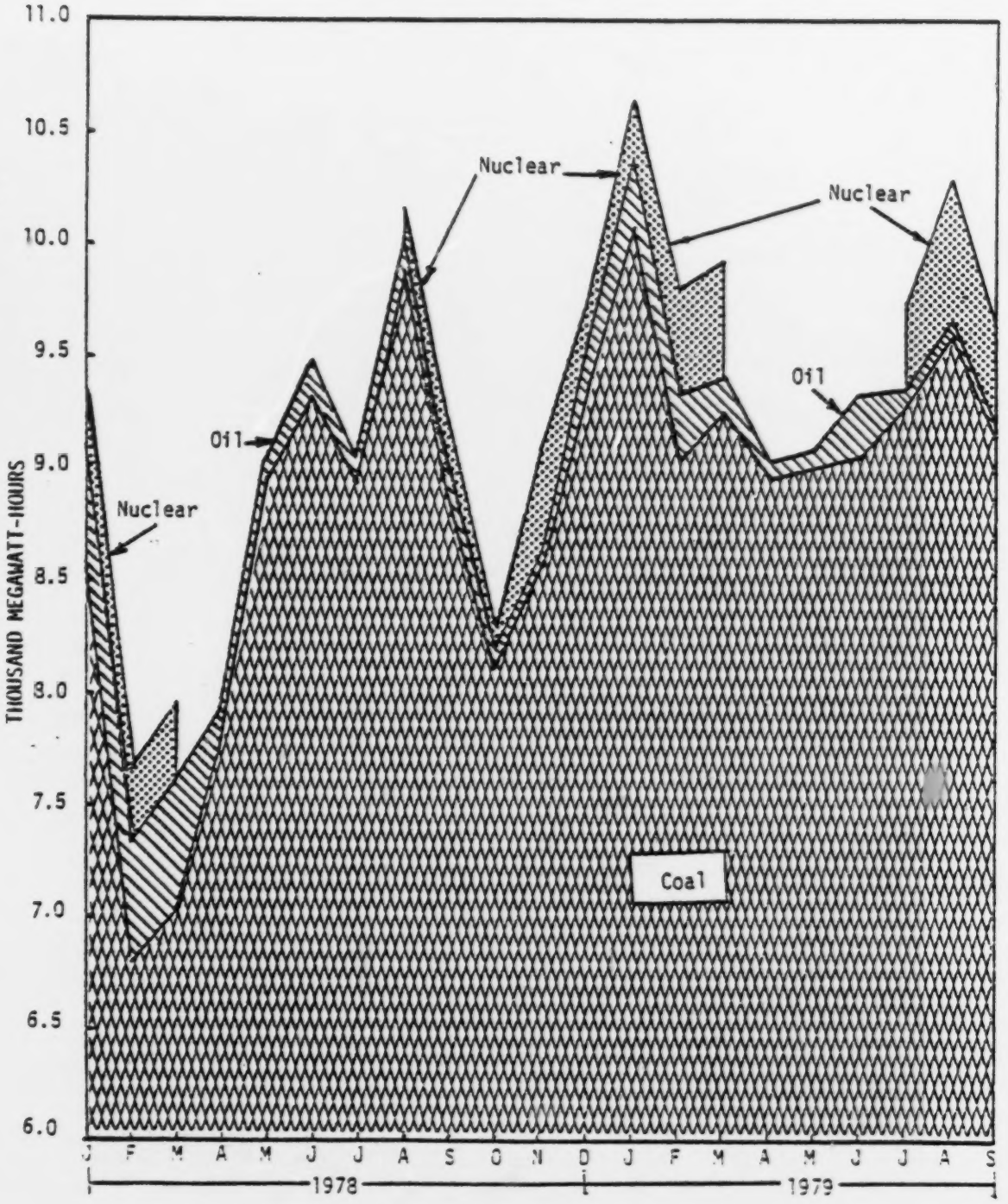
Source: Ohio Electric Utilities' FPC Form 423 and the Ohio Department of Energy.

Table 3 Major Ohio Utilities -
Net Generation by Type of Fuel (Ohio Portion)
(Thousand MWH)

	Coal		Oil		Gas	Nuclear		Total
1978								
Jan.	8,565	(91%)	545	(6%)	4	262	(3%)	9,376
Feb.	6,807	(89%)	528	(7%)	2	331	(4%)	7,668
Mar.	7,034	(88%)	565	(7%)	4	369	(5%)	7,972
Apr.	7,746	(98%)	184	(2%)	7	0		7,937
May	8,933	(99%)	108	(1%)	6	0		9,047
June	9,323	(98%)	171	(2%)	8	0		9,502
July	8,928	(99%)	75	(1%)	18	0		9,021
Aug.	9,889	(97%)	149	(2%)	9	137	(1%)	10,184
Sept.	8,874	(96%)	115	(1%)	10	235	(3%)	9,234
Oct.	8,124	(98%)	69	(1%)	8	104	(1%)	8,305
Nov.	8,582	(94%)	75	(1%)	7	429	(5%)	9,093
Dec.	9,387	(96%)	171	(2%)	6	184	(2%)	9,747
Total	102,192	(95.4%)	2,755	(2.6%)	89	2,051	(2%)	107,087
1979								
Jan.	10,092	(95%)	296	(3%)	9	260	(2%)	10,660
Feb.	9,042	(92%)	315	(3%)	10	458	(5%)	9,825
Mar.	9,263	(93%)	167	(2%)	6	505	(5%)	9,940
Apr.	8,965	(99%)	87	(1%)	5	0		9,057
May	9,013	(99%)	94	(1%)	8	0		9,118
Jun.	9,205	(98%)	140	(2%)	7	0		9.352
Jul.	9,291	(95%)	78	(1%)	8	389	(4%)	9,766
Aug.	9,613	(93%)	57	(1%)	3	642	(6%)	10,316
Sep.	9,127	(94%)	59	(1%)	6	478	(5%)	9,669

Source: Ohio electric utilities' FPC Form 4 and the Ohio Department of Energy.

Figure 3 Major Ohio Electric Utilities Net Generation by Type of Fuel (Ohio Portion)
(January 1978 - September 1979)



Source: Ohio Department of Energy.

Table 4 Major Ohio Electric Utilities
Fuel Consumption and Stocks
(Ohio Portion)

Month	Coal (Thousand Tons) Burned	Coal (Thousand Tons) In Stock	Oil (Thousand 42-Gal. bbls) Burned	Oil (Thousand 42-Gal. bbls) In Stock	Gas Burned (MMCF)
Jan. 1978	4,221.8	8,067.5	1,405.9	782.8	122
Feb.	3,336.5	5,817.2	1,373.5	1,212.4	116
Mar.	3,394.6	4,876.0	1,380.5	1,316.9	234
Apr.	3,702.5	5,796.2	359.0	1,264.1	170
May	4,189.7	7,092.4	311.6	1,138.8	180
June	4,387.4	7,833.6	460.0	1,128.0	211
July	4,259.2	8,152.3	230.5	1,946.7	225
Aug.	4,755.9	7,476.5	259.0	1,088.4	233
Sept.	4,244.3	7,513.1	324.3	1,101.1	237
Oct.	3,761.1	8,536.6	191.1	1,179.4	214
Nov.	3,924.0	9,514.4	228.7	1,027.0	96
Dec.	4,403.2	9,551.8	447.3	1,240.6	244
Total	48,580.2	--	6,971.5	--	2,282
Avg/Month	4,048.4	7,519.0	581.0	1,202.2	190
Jan. 1979	4,756.0	9,016.0	676.6	1,115.1	315
Feb.	4,235.9	8,606.1	798.7	1,009.7	537
Mar.	4,318.9	8,856.2	429.3	1,079.5	443
Apr.	4,076.1	9,529.4	238.9	1,247.6	285
May	4,141.3	10,199.1	242.8	1,193.6	383
Jun.	4,328.6	10,659.5	366.0	1,134.7	353
Jul.	4,401.2	9,758.4	404.9	1,135.2	207
Aug.	4,523.1	9,898.0	184.2	1,329.8	233
Sep.	4,243.5	10,064.0	169.7	1,526.5	372

Source: FPC Form 423 of the major Ohio electric utilities and the Ohio Department of Energy.

to the no-growth years of 1974 and 1975 following the 1973 OPEC oil embargo. However, in 1978, the growth rate has dipped to 1.7 percent. This lower growth in 1978 is largely attributed to the conservation measures initiated during the coal strike. Because of the unusual low growth of 1978, the first five months consumption appear high by comparison. In reality, real growth is expected to be lower this year.

Recent historical consumption data by the major consuming sectors are given in Table 5 and shown graphically in Figure 4. As shown in these displays, the residential and commercial sectors exhibit seasonal consumption patterns while the industrial sector fluctuates greatly with general economic conditions. The average annual growth rate in the last five years is 4.8 percent for the residential, 3.5 percent for the commercial and 3.8 percent for the industrial sector.

Twelve-Month Electric Energy Demand Forecast

The electric demand forecast is prepared in two ways: 1) a utility by utility forecast is given; each forecast contains total projected demand for the utility's service area, which may or may not be located entirely within Ohio; and 2) an aggregate demand for electricity within the State of Ohio is made by sector (residential, commercial and industrial).

Electric Demand Forecast by Utility Service Area

For each utility service area, two electric demand forecasts are provided. One of the forecasts is a reporting utility forecast and the other is provided by the Ohio Department of Energy (Appendix A, Tables A-1 through A-9).

The Ohio Department of Energy forecasts are based on monthly data from the utility reports between January 1970 and May 1979. No independent forecast is given for OVEC because this utility has only one customer whose demand is preplanned.

Because of the overlapping months for the forecasts prepared on July 1 and November 1, the utilities may elect to use their last forecasts for those overlapping months in the new forecasting period. However, in this reporting period about half of the utilities have revised their forecasts from higher demand expectations to lower demand expectations, because of lower consumption experienced by those utilities recently.

From all forecasts made either by the utilities or ODOE, indications are that the growth of the demand for electricity will be insignificant in the winter but it will be higher in the summer (when the forecasts are compared with the latest actuals). This trend may be explained by: (1) the increasing conservation efforts on the part of consumers, (2) the assumption of normal summer temperatures, and (3) the assumption of a potential economic slow-down. At any rate, the growth of demand for electricity as projected is lower than that reported last July.

Electric Demand Forecast by Sector

Except for OVEC, Ohio's demand for electricity from all eight major reporting utilities may be estimated based on monthly consumption data from January 1971 through September 1979 (Table 5 and Figures 4 through 8). For each sector, this period provides a time series of 100 observations. Based on these observations, a forecasting model is constructed to generate a monthly forecast for the future months through October 1980.

TABLE 5 OHIO ELECTRICITY CONSUMPTION
October 1977 - September 1979
(Thousand MWH)

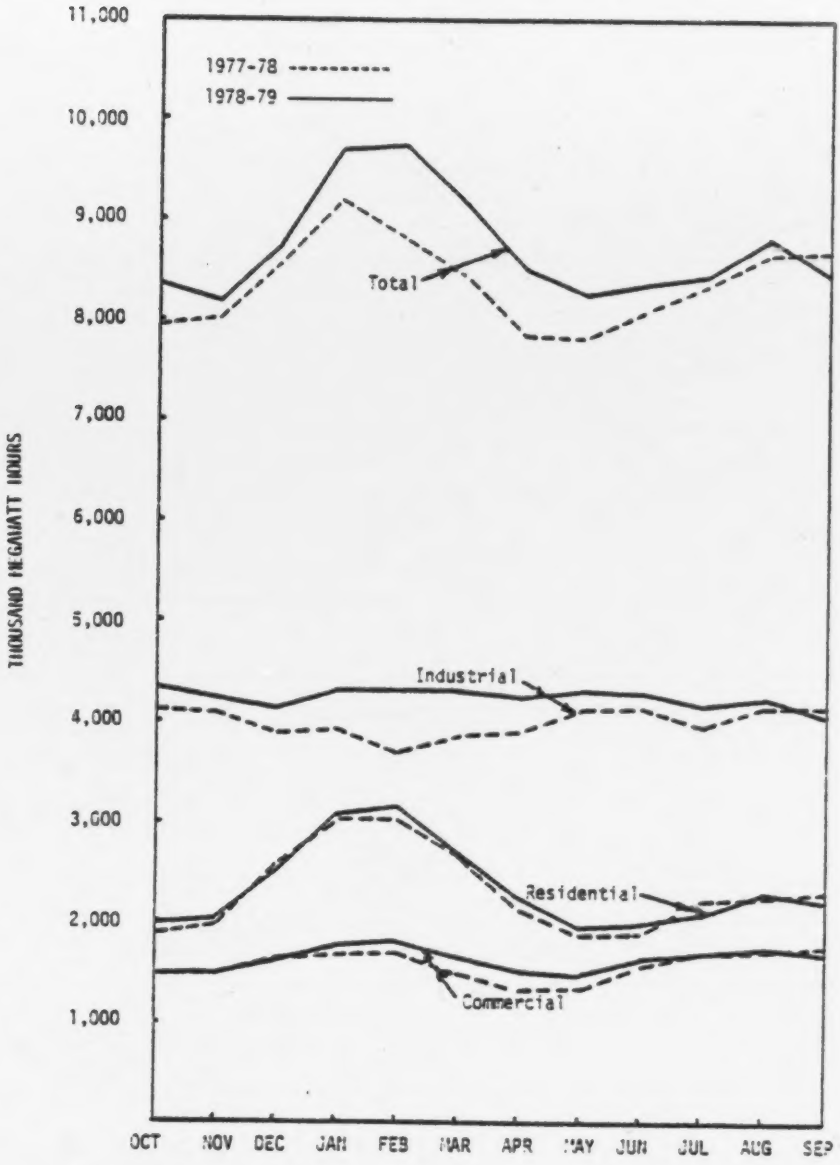
	October	November	December	January	February	March	April	May	June	July	August	September	Total
Residential													
1978-79	2,021.5	2,039.9	2,485.5	3,090.0	3,144.8	2,707.6	2,260.4	1,951.2	1,999.6	2,097.5	2,315.2	2,217.1	28,330.3
1977-78	1,901.4	1,975.5	2,571.8	3,039.1	3,023.7	2,664.9	2,139.5	1,876.5	1,927.8	2,223.0	2,265.2	2,301.6	27,910.0
% Change*	6.3	3.3	-3.4	1.7	4.0	1.6	5.7	4.0	3.7	-5.6	2.2	-3.7	1.5
Commercial													
1978-79	1,540.0	1,491.6	1,606.7	1,778.9	1,823.9	1,651.7	1,541.8	1,518.9	1,640.6	1,697.7	1,777.7	1,712.3	19,781.8
1977-78	1,496.1	1,488.7	1,621.0	1,687.5	1,686.3	1,485.8	1,364.7	1,377.8	1,590.2	1,718.4	1,752.1	1,783.7	19,052.3
% Change*	2.9	0.2	-0.9	5.4	8.2	11.2	13.0	10.2	3.2	-1.2	1.5	-4.0	3.8
Industrial													
1978-79	4,337.7	4,221.8	4,164.9	4,314.4	4,287.3	4,324.4	4,249.8	4,340.7	4,305.0	4,194.1	4,261.0	4,070.8	51,071.9
1977-78	4,121.6	4,099.0	3,901.3	3,929.9	3,704.1	3,876.7	3,928.7	4,144.2	4,152.9	3,987.0	4,182.4	4,151.8	48,179.6
% Change*	5.2	3.0	6.8	9.8	15.7	11.5	8.2	4.7	3.7	5.2	1.9	-2.0	6.0
Other													
1978-79	454.6	447.9	486.5	526.4	509.5	492.6	451.4	445.0	444.3	444.7	459.6	444.4	5,606.9
1977-78	437.1	449.8	475.7	536.5	432.5	436.6	409.8	422.2	441.7	444.2	450.0	475.2	5,411.3
% Change*	4.0	-0.4	2.3	-1.9	17.8	12.8	10.2	5.4	0.6	0.1	2.1	-6.5	3.6
Total													
1978-79	8,353.7	8,201.1	8,743.7	9,709.8	9,765.5	9,176.4	8,503.4	8,255.9	8,389.4	8,434.0	8,813.5	8,444.3	104,790.9
1977-78	7,956.2	8,012.9	8,569.9	9,193.0	8,846.5	8,463.8	7,842.6	7,820.6	8,112.6	8,372.7	8,649.6	8,712.3	100,553.2
% Change*	5.0	2.3	2.0	5.6	10.4	8.4	8.4	5.6	3.4	0.7	1.9	-3.1	4.2
Customers (000)													
Residential	3,349.6	3,359.9	3,367.7	3,377.3	3,384.9	3,387.9	3,388.5	3,389.3	3,386.8	3,390.9	3,389.9	3,395.6	
Commercial	342.0	343.6	344.2	344.7	345.3	345.6	286.7	346.6	346.3	346.3	346.3	346.8	
Industrial	21.7	21.9	22.0	22.0	22.0	22.1	22.1	22.1	22.1	22.0	22.0	22.1	
Total	3,713.3	3,725.4	3,733.8	3,743.9	3,752.2	3,755.6	3,697.3	3,758.0	3,755.1	3,759.2	3,758.3	3,764.5	

*Percentage changes is for the same period of the previous year (1977-1978)

Notes: (1) Excludes sales to other utilities.
(2) Figures may not add due to independent rounding.
(3) Figures reported include CG&E, CEI, C&SOE, DP&L, MP, OE, OP, and TE.

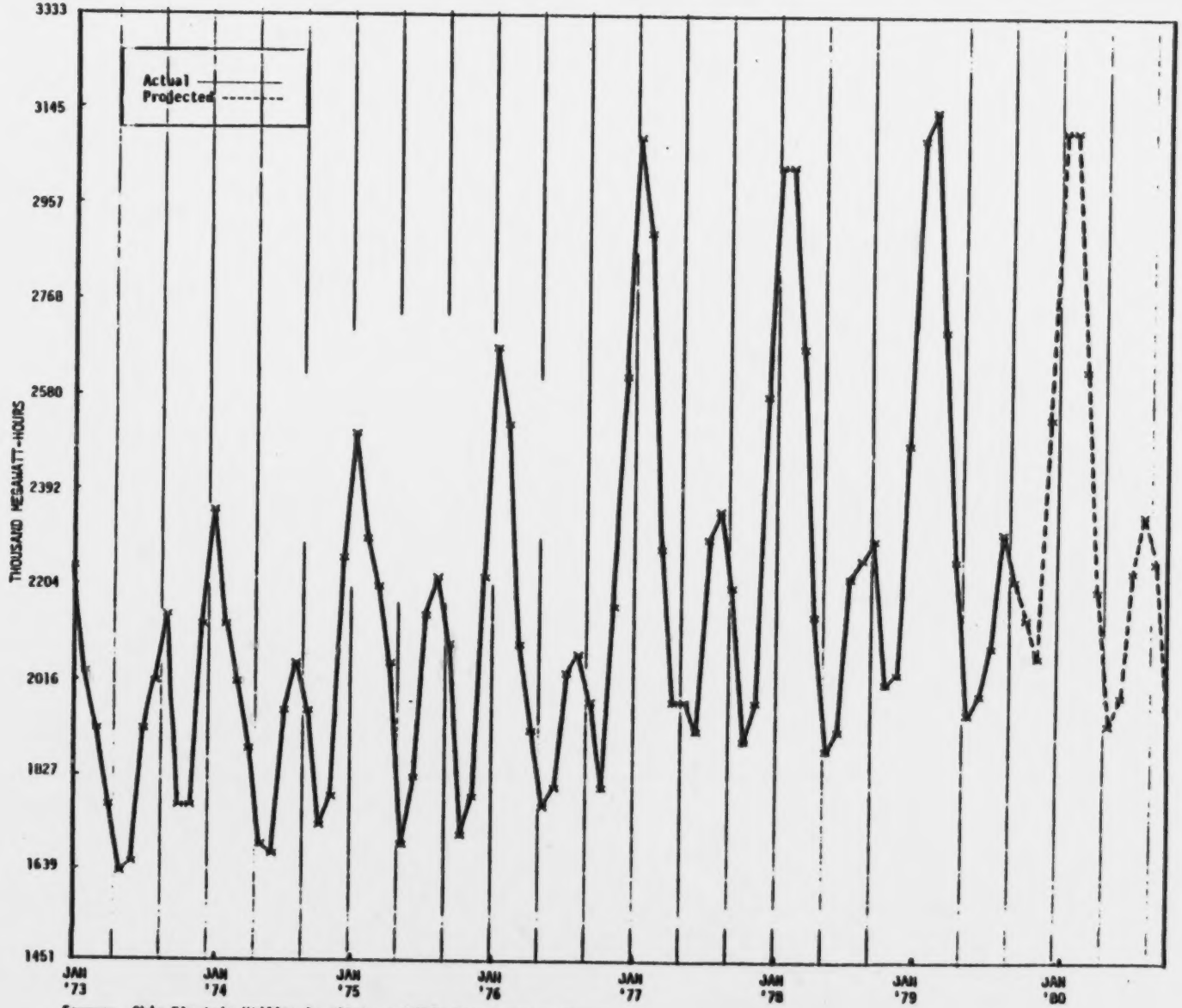
Source: Ohio Electric Utility Institute's Monthly Summaries.

Figure 4 Comparison of Two Years of Ohio Electricity by Sector
October 1977 - September 1979



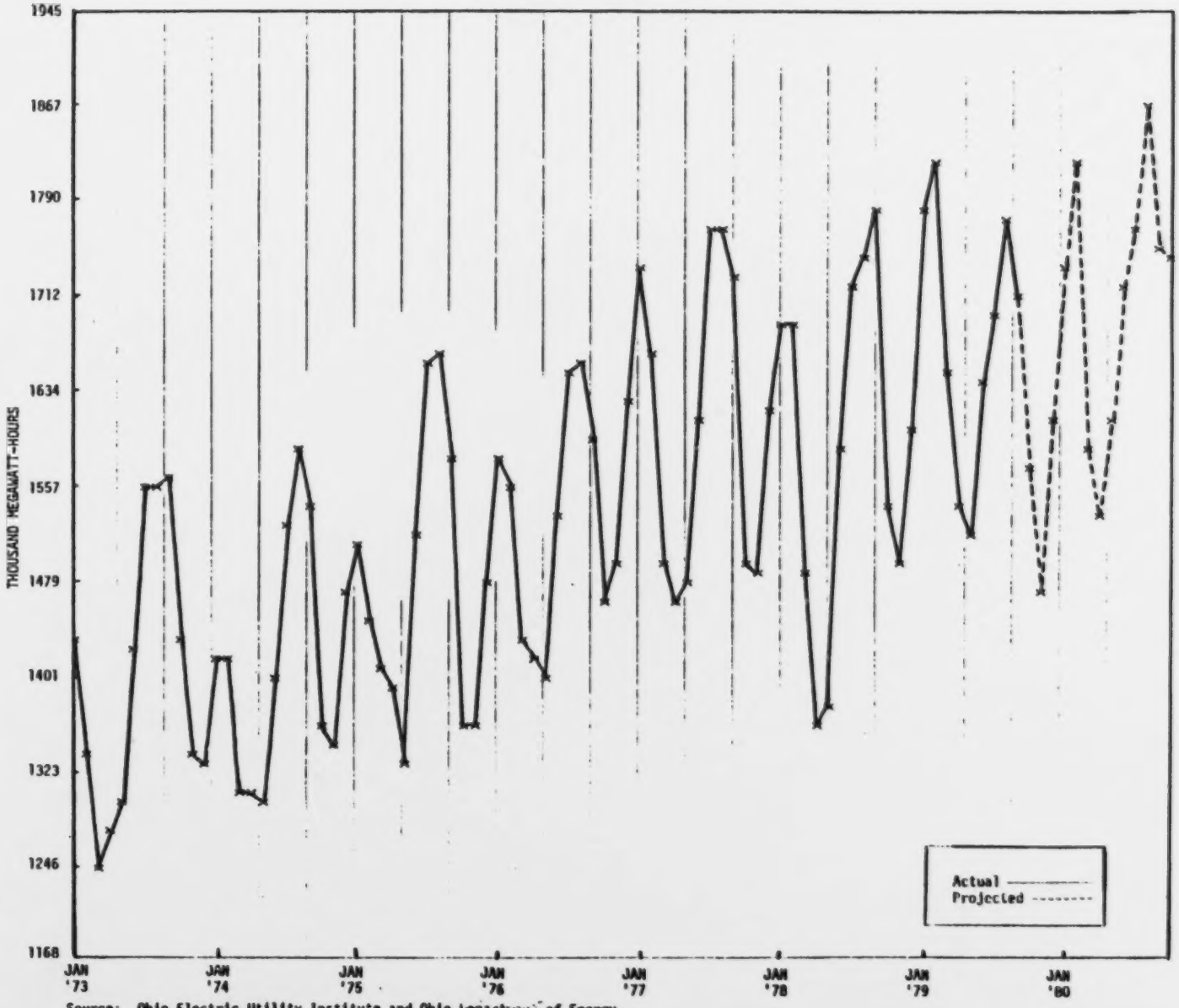
Source: Ohio Electric Utility Institute's Monthly Summary.

Figure 5 Monthly Ohio Residential Electricity Consumption - Actual and Projected
(January 1973 - October 1980)



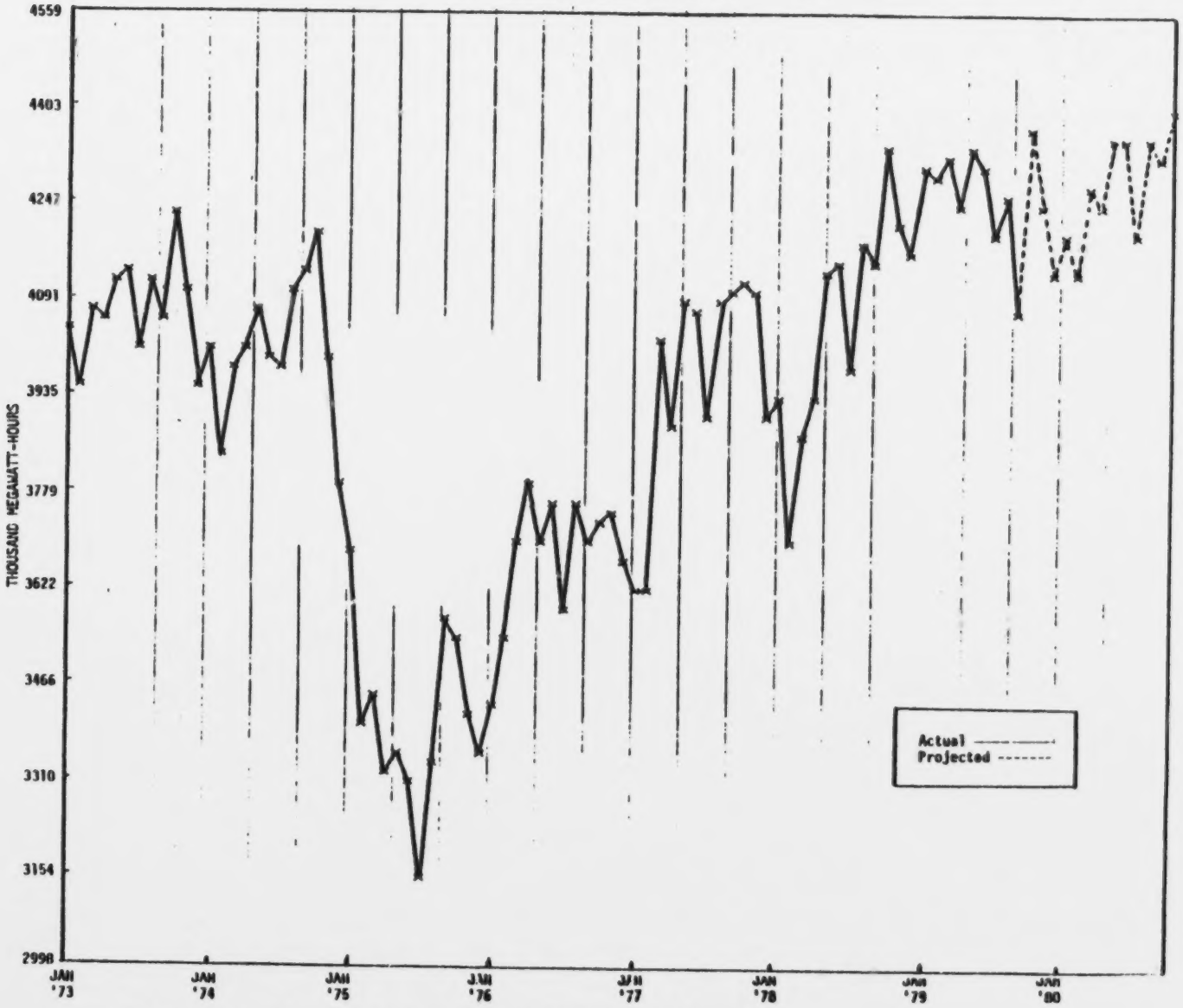
Source: Ohio Electric Utility Institute and Ohio Department of Energy.

Figure 6 Monthly Ohio Commercial Electricity Consumption - Actual and Projected
(January 1973 - October 1980)



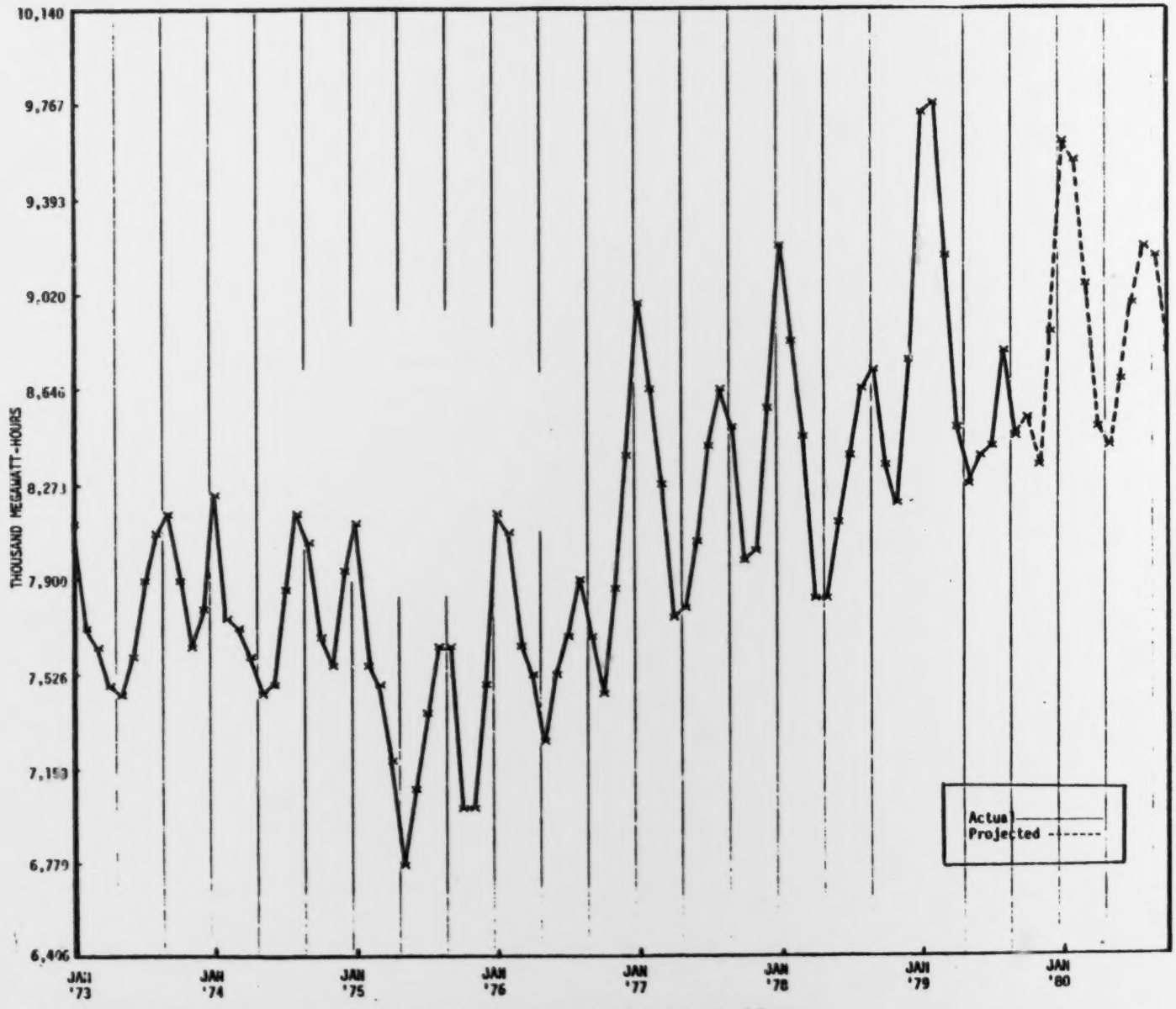
Source: Ohio Electric Utility Institute and Ohio Department of Energy.

Figure 7 Monthly Ohio Industrial Electricity Consumption - Actual and Projected
(January 1973 - October 1980)



Source: Ohio Electric Utility Institute (excluding OVEC) and Ohio Department of Energy.

Figure 8 Total Monthly Electricity Consumption - Actual and Projected
(January 1973 - October 1980)



Source: Ohio Electric Utility Institute (does not include OVEC) and Ohio Department of Energy.

These sectoral forecasts are included in Appendix A, Tables A-10 through A-13.

The total Ohio electric demand forecast projects a growth rate of 4 percent over the next twelve months. The residential and the commercial sectors are expected to have an average growth rate of 6 percent and 7 percent respectively. The forecast for the industrial sector shows a 3 percent increase over a year ago. Thus, the forecast suggests that the high growth rates are centered in the residential and the commercial sectors.

The recent federal regulations regarding thermostat settings in public buildings to a minimum of 78° in the summer and a maximum of 65° in the winter, as well as other mandatory conservation measures which may be implemented, could contribute to a less ambitious growth in demand for electricity in the commercial sector.

Assessment of Fuel Adequacy by Utility/Utility Group

Average daily requirements were found by dividing projected monthly coal consumption by the number of days in the month. End-of-month stocks were derived in a consecutive manner from the end of October 1979 stocks, projecting monthly coal delivery schedules as submitted by the utilities, and projecting monthly coal consumption levels. Number of days' supply of coal was estimated on the basis of average daily requirements in subsequent months and the level of end-of-month stocks of coal for the month in question.

Coal consumption projections were made through the use of a formula which adjusts coal consumption levels for changes in the

consumption of oil, natural gas, and nuclear fuel in a manner that is consistent with the projected demand or net energy for load. In making these projections it is assumed that the following conditions will be satisfied:

1. Monthly demand (net energy for load) for November 1979 through October 1980 will be realized in the manner projected by the utility companies.
2. Energy required to supply projected net energy for load in a given month of November 1979 through October 1980 will be proportional to the energy consumed in supplying the actual net energy for load in the respective months of November 1978 through October 1979.
3. Monthly delivery schedules for all fuels in 1979 through 1980 will be met in the manner projected by the utility companies.

In the case of the CAPCO and CCD groups, where individual members have interconnected transmission systems and operate jointly owned generation units, the figures presented in this report for the total groups are more significant than those reported for the individual members. As displayed in Table 6, the number of days' supply of coal for AEP, APS, CCD, and CAPCO utility groups ranges from 54 days to 89 days; this level of supply is considered sufficient.

The assessment of oil adequacy is derived by using utilities' projected monthly consumption and deliveries. It appears that there would be a tight oil supply market in the year of 1980. Of the nine utilities reported, four utilities (Cincinnati Gas and Electric, Columbus and Southern Ohio Electric, Dayton Power and Light, and Allegheny Power System) projected significant reduction in fuel oil

supply beginning in 1980. Both Cincinnati Gas and Electric and Dayton Power and Light expect to offset the reduced oil supply by switching to natural gas that has been projected to be sufficient next year.

The reduction in fuel oil supply could weaken the utilities' capability to handle the electric peak demand. Therefore, there must be a major effort to develop load management and conservation programs in order to ensure the continuity of supply of electricity for these peak periods. The projected days' supply for oil represent a rough approximation because oil consumption fluctuates sharply from month to month partially due to the purchase of electricity.

Table 6 Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model
(November 1979 - October 1980)

CAPCO GROUP (EXCLUDING DUQUESNE LIGHT COMPANY)

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	4390.5	4643.7	4962.2	4505.2	4653.2	4341.8	4354.2	4507.3	4625.6	4721.2	4419.6	4529.2	54653.8
EST DEMAND GEN BY COAL	3654.7	3518.6	3780.3	3190.4	4020.6	4116.4	3854.5	3907.2	4118.5	4083.4	3859.6	3718.9	45823.3
EST DEMAND GEN BY OIL	114.5	129.5	223.5	139.9	182.5	142.0	115.8	103.1	103.8	64.7	66.4	84.6	1470.4
PROJ DAILY CONSUMPTION													
COAL (KTONS)	54.97	51.21	55.02	51.41	58.52	61.91	56.10	58.77	59.95	59.44	58.05	54.13	
OIL (KBBL)	9.04	9.90	17.09	11.84	13.95	11.22	8.85	8.15	7.94	4.94	5.24	6.47	
COAL DELIVERIES (KTONS)	1656.4	1666.1	1793.6	1569.2	1789.0	1706.2	1878.3	1732.2	1686.8	1782.9	1606.3	1595.9	20462.9
OIL DELIVERIES (KBBL)	267.84	300.59	530.44	331.11	430.80	385.60	274.44	236.85	233.81	151.91	153.17	192.59	3489.14
END OF MONTH STOCK													
COAL (KTONS)	3132.5	3210.9	3298.8	3428.4	3403.3	3252.1	3391.1	3360.3	3188.7	3129.2	2994.0	2911.9	
OIL (KBBL)	674.9	668.7	669.4	669.0	667.2	716.3	716.3	708.8	696.6	695.2	691.0	683.1	
NUMBER OF DAYS SUPPLY													
COAL	59.	60.	60.	57.	58.	57.	57.	56.	54.	56.	55.	55.	
OIL	53.	43.	52.	52.	68.	86.	106.	116.	113.	98.	83.	67.	

CLEVELAND ELECTRIC ILLUMINATING COMPANY

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	1608.0	1690.0	1821.0	1637.0	1666.0	1577.0	1629.0	1670.0	1744.0	1748.0	1628.0	1659.0	20077.0
EST DEMAND GEN BY COAL	1291.2	1323.3	1342.1	1211.4	1187.9	1192.2	1132.2	1170.7	1391.7	1286.5	1390.3	1201.1	15120.5
EST DEMAND GEN BY OIL	49.8	37.2	131.1	68.8	75.0	59.9	53.8	23.4	26.2	24.5	21.2	31.5	602.2
PROJ DAILY CONSUMPTION													
COAL (KTONS)	18.48	18.33	18.59	18.57	16.45	17.06	15.68	16.75	19.27	17.82	19.90	16.63	
OIL (KBBL)	4.20	3.03	10.69	6.20	6.11	5.05	4.38	1.97	2.13	1.99	1.78	2.57	
COAL DELIVERIES (KTONS)	571.1	496.7	512.6	461.8	581.8	626.1	648.6	623.7	644.6	636.5	584.3	512.6	6900.4
OIL DELIVERIES (KBBL)	126.02	95.19	327.19	172.45	189.86	150.88	136.45	61.14	66.60	61.48	53.19	77.62	1518.07
END OF MONTH STOCK													
COAL (KTONS)	735.6	664.2	600.7	542.4	614.3	728.6	891.1	1012.3	1059.4	1143.6	1131.0	1128.0	
OIL (KBBL)	531.9	533.2	529.2	527.9	528.4	527.8	528.5	530.6	531.1	530.7	530.4	528.4	
NUMBER OF DAYS SUPPLY													
COAL	40.	36.	33.	33.	37.	45.	50.	54.	56.	63.	64.	61.	
OIL	79.	64.	92.	118.	183.	201.	210.	189.	164.	139.	114.	90.	

Table 6 Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(November 1979 - October 1980)

OHIO EDISON SYSTEM

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	2083.4	2215.3	2345.2	2096.8	2242.9	2065.1	2047.2	2138.1	2156.6	2236.7	2074.1	2152.3	25852.9
EST DEMAND GEN BY COAL	1910.5	1721.3	2087.2	1710.3	2489.6	2498.8	2231.4	2245.0	2286.8	2393.3	2038.8	2081.3	25693.5
EST DEMAND GEN BY OIL	54.2	77.5	82.1	65.8	89.7	72.3	49.1	77.8	75.5	35.8	37.3	49.5	765.0
PROJ DAILY CONSUMPTION													
COAL (KTONS)	30.82	26.87	32.58	29.56	38.86	40.31	34.83	36.21	35.68	37.36	32.89	32.49	
OIL (KBBL)	3.91	5.42	5.74	5.03	6.27	5.22	3.44	5.56	5.28	2.58	2.78	3.46	
COAL DELIVERIES (KTONS)	924.3	1007.4	1020.0	962.4	1056.2	935.1	1068.7	947.5	941.2	979.4	871.0	922.3	11635.6
OIL DELIVERIES (KBBL)	116.33	169.84	177.03	142.75	194.99	158.94	104.51	168.78	161.76	78.88	80.03	106.00	1659.83
END OF MONTH STOCK													
COAL (KTONS)	2024.8	2199.4	2209.3	2344.1	2195.6	1921.5	1910.4	1771.5	1686.5	1427.8	1312.3	1227.5	
OIL (KBBL)	116.2	117.9	117.0	118.9	119.3	121.6	119.6	121.5	119.6	120.9	120.8	118.6	
NUMBER OF DAYS SUPPLY													
COAL	68.	68.	63.	59.	58.	54.	53.	49.	45.	44.	41.	41.	
OIL	21.	21.	23.	19.	23.	34.	21.	23.	47.	42.	34.	30.	

TOLEDO EDISON

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	699.1	738.4	796.8	772.2	744.3	699.7	678.8	699.2	725.8	736.5	717.5	717.9	8723.9
EST DEMAND GEN BY COAL	453.8	474.1	351.8	268.7	343.1	425.4	490.9	491.6	440.8	403.6	430.5	436.5	5009.3
EST DEMAND GEN BY OIL	10.5	14.8	10.3	6.2	17.9	9.8	12.9	2.8	2.2	4.4	7.9	3.6	103.2
PROJ DAILY CONSUMPTION													
COAL (KTONS)	6.11	6.19	4.58	3.88	4.48	5.74	6.41	6.63	5.76	5.27	5.81	5.70	
OIL (KBBL)	0.91	1.24	0.87	0.58	1.50	0.85	1.08	0.24	0.18	0.37	0.69	0.30	
COAL DELIVERIES (KTONS)	161.0	162.0	261.0	145.0	151.0	145.0	161.0	161.0	101.0	167.0	151.0	161.0	1927.0
OIL DELIVERIES (KBBL)	25.49	35.57	26.21	15.90	45.95	75.78	33.48	6.93	5.45	11.55	19.95	8.98	311.24
END OF MONTH STOCK													
COAL (KTONS)	358.9	329.0	447.9	484.1	496.2	469.0	431.3	393.3	315.9	319.5	296.2	280.5	
OIL (KBBL)	27.5	24.5	23.8	23.6	22.9	73.2	73.1	72.7	72.5	72.5	71.9	71.5	
NUMBER OF DAYS SUPPLY													
COAL	68.	76.	93.	88.	80.	73.	71.	71.	57.	55.	51.	46.	
OIL	22.	28.	33.	16.	27.	145.	173.	151.	125.	103	89.	68.	

Table 6 Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(November 1979 - October 1980)

CCD GROUP

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	2885.6	3261.1	3434.3	2963.3	2945.1	2720.9	2865.7	2996.7	3419.1	3309.9	2841.0	2904.3	36547.0
EST DEMAND GEN BY COAL	3127.2	3379.0	3352.6	2776.7	2842.9	2654.0	2795.2	3214.8	3602.4	3317.1	2843.5	3123.4	37028.6
EST DEMAND GEN BY OIL	39.1	49.0	29.1	26.9	45.7	12.5	6.6	8.5	24.0	23.4	14.0	12.7	291.6
PROJ DAILY CONSUMPTION													
COAL (KTONS)	49.32	51.57	51.17	46.92	43.39	41.86	42.66	50.70	54.98	50.63	44.85	47.67	
OIL (KBBL)	4.60	5.57	3.31	3.38	5.19	1.47	0.75	1.00	2.73	2.66	1.64	1.44	
COAL DELIVERIES (KTONS)	1836.0	1453.0	1415.0	1320.0	1255.0	1214.0	1387.0	1442.0	1502.0	1511.0	1374.0	1439.0	17148.0
OIL DELIVERIES (KBBL)	148.21	177.16	98.83	95.12	143.12	43.12	22.19	33.71	89.76	85.00	41.98	39.33	1017.52
END OF MONTH STOCK													
COAL (KTONS)	3502.8	3357.1	3185.8	3192.0	3102.0	3060.3	3124.7	3045.7	2843.2	2784.7	2813.4	2774.6	
OIL (KBBL)	435.1	439.6	435.9	436.3	418.4	417.4	416.4	420.0	425.0	427.6	420.5	415.1	
NUMBER OF DAYS SUPPLY													
COAL	69.	70.	72.	75.	71.	65.	59.	57.	59.	60.	58.	55.	
OIL	103.	165.	180.	191.	227.	206.	180.	157.	142.	129.	112.	93.	

CINCINNATI GAS & ELECTRIC

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	1186.7	1390.6	1413.0	1178.9	1194.5	1125.3	1224.7	1276.8	1531.9	1495.5	1197.0	1195.9	15410.8
EST DEMAND GEN BY COAL	1094.2	1119.4	1062.6	833.5	792.0	1002.6	1031.2	997.2	1190.3	1129.1	974.4	923.2	12149.5
EST DEMAND GEN BY OIL	21.4	22.2	5.7	8.3	9.6	6.8	2.4	5.1	18.4	17.9	1.2	4.8	123.7
PROJ DAILY CONSUMPTION													
COAL (KTONS)	16.94	16.77	15.92	13.83	11.87	15.52	15.45	15.44	17.84	16.92	15.09	13.83	
OIL (KBBL)	2.76	2.78	0.71	1.14	1.20	0.87	0.31	0.66	2.30	2.25	0.15	0.60	
COAL DELIVERIES (KTONS)	540.0	558.0	475.0	432.0	368.0	360.0	530.0	450.0	525.0	550.0	475.0	450.0	5713.0
OIL DELIVERIES (KBBL)	86.00	85.00	22.00	33.00	37.00	25.00	10.00	20.00	71.00	69.00	5.00	16.00	479.00
END OF MONTH STOCK													
COAL (KTONS)	1180.2	1218.2	1199.6	1244.4	1244.6	1138.9	1189.9	1176.7	1148.8	1174.4	1196.8	1217.9	
OIL (KBBL)	231.1	229.8	229.9	230.9	230.8	229.6	230.1	230.3	230.0	229.4	229.7	227.2	
NUMBER OF DAYS SUPPLY													
COAL	74.	87.	88.	88.	89.	72.	71.	69.	73.	78.	76.	73.	
OIL	209.	217.	196.	183.	218.	197.	170.	141.	142.	166	141.	123.	

Table 6 Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(November 1979 - October 1980)

DAYTON POWER & LIGHT

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	906.7	1004.8	1052.0	978.9	972.0	859.1	862.5	881.6	978.7	965.7	869.5	923.3	11255.0
EST DEMAND GEN BY COAL	1106.1	1376.6	1325.5	1243.2	1467.8	1073.9	1181.7	1287.2	1456.3	1429.3	1086.9	1375.7	15412.1
EST DEMAND GEN BY OIL	9.1	12.1	14.7	9.8	33.0	4.3	2.6	1.8	2.9	2.9	10.4	5.5	109.1
PROJ DAILY CONSUMPTION													
COAL (KTONS)	16.88	20.33	19.58	20.33	21.68	16.39	17.45	19.64	21.54	21.11	16.59	20.32	
OIL (KBBL)	0.84	1.08	1.32	0.97	2.97	0.40	0.23	0.16	0.26	0.26	0.97	0.50	
COAL DELIVERIES (KTONS)	938.0	497.0	536.0	533.0	545.0	532.0	507.0	565.0	604.0	605.0	498.0	540.0	6900.0
OIL DELIVERIES (KBBL)	26.00	35.00	42.00	28.00	93.00	12.00	7.00	6.00	9.00	7.00	28.00	15.00	308.00
END OF MONTH STOCK													
COAL (KTONS)	1553.6	1420.4	1349.6	1313.5	1186.5	1226.9	1192.9	1168.6	1105.0	1055.7	1056.1	966.3	
OIL (KBBL)	39.7	41.1	42.1	42.8	43.7	43.7	43.5	44.6	45.4	44.3	43.2	42.8	
NUMBER OF DAYS SUPPLY													
COAL	78.	70.	66.	70.	69.	65.	58.	55.	58.	57.	56.	53.	
OIL	36.	31.	33.	14.	156.	139.	115.	91.	78.	61.	63.	46.	

COLUMBUS & SOUTHERN OHIO ELECTRIC COMPANY

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	792.2	865.7	969.3	805.5	778.5	736.5	778.5	838.3	908.4	848.7	774.5	785.2	9881.3
EST DEMAND GEN BY COAL	926.9	883.0	964.5	700.8	583.1	577.4	582.3	930.5	953.8	758.7	782.2	824.5	9466.9
EST DEMAND GEN BY OIL	8.7	14.7	8.7	8.9	3.1	1.5	1.6	1.7	2.7	2.5	2.3	2.4	58.8
PROJ DAILY CONSUMPTION													
COAL (KTONS)	15.57	14.36	15.68	12.60	9.48	9.70	9.47	15.64	15.51	12.34	13.14	13.41	
OIL (KBBL)	1.10	1.81	1.07	1.20	0.38	0.19	0.19	0.21	0.33	0.31	0.29	0.29	
COAL DELIVERIES (KTONS)	358.0	398.0	404.0	355.0	342.0	322.0	350.0	427.0	373.0	356.0	401.0	449.0	4535.0
OIL DELIVERIES (KBBL)	36.21	57.16	34.83	34.12	13.12	6.12	5.19	7.71	9.76	9.00	8.98	8.33	230.52
END OF MONTH STOCK													
COAL (KTONS)	766.8	719.4	637.5	639.4	687.7	718.6	775.0	733.0	625.1	598.7	605.3	638.7	
OIL (KBBL)	160.8	162.0	163.7	164.1	165.4	165.9	165.2	166.5	165.9	165.2	165.4	164.7	
NUMBER OF DAYS SUPPLY													
COAL	52.	50.	58.	67.	68.	58.	50.	51.	49.	45.	43.	42.	
OIL	237.	329.	319.	313.	294.	270.	244.	220.	197.	174.	152.	143.	

Table 6 Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(November 1979 - October 1980)

ALLEGHENY POWER SYSTEM

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	2685.3	3017.4	3198.5	2914.6	2854.4	2659.7	2606.7	2596.2	2651.7	2731.0	2651.7	2776.3	33343.4
EST DEMAND GEN BY COAL	2677.2	2917.8	3176.1	2833.0	3025.7	3351.2	3310.5	3401.0	3129.0	2949.5	2969.9	3359.3	37100.2
EST DEMAND GEN BY OIL	21.5	30.2	3.2	5.8	5.7	2.7	7.8	0.0	8.0	0.0	2.7	22.2	109.7
PROJ DAILY CONSUMPTION													
COAL (KTONS)	36.67	38.68	42.10	41.57	40.10	45.90	43.88	46.58	41.47	39.09	40.68	44.53	
OIL (KBBL)	1.85	2.51	0.27	0.54	0.48	0.23	0.65	0.0	0.66	0.0	0.23	1.85	
COAL DELIVERIES (KTONS)	1165.6	1165.6	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	15271.0
OIL DELIVERIES (KBBL)	108.84	108.84	15.36	15.36	15.36	15.36	15.36	15.36	15.36	15.36	15.36	15.36	371.26
END OF MONTH STOCK													
COAL (KTONS)	3518.9	3485.6	3474.5	3604.4	3655.2	3572.1	3505.8	3402.3	3410.6	3492.6	3566.2	3479.9	
OIL (KBBL)	407.0	437.9	445.0	445.4	446.0	454.5	449.7	465.0	459.9	475.2	483.7	441.8	
NUMBER OF DAYS SUPPLY													
COAL	86.	84.	82.	83.	81.	81.	82.	84.	83.	85.	89.	89.	
OIL	518.	672.	649.	629.	607.	583.	559.	535.	510.	485.	491.	490.	

AMERICAN ELECTRIC POWER SYSTEM

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	6418.0	7364.0	7674.0	6874.0	6818.0	6219.0	5965.0	5707.0	6127.0	6374.0	6064.0	6065.0	77668.9
EST DEMAND GEN BY COAL	7059.8	8321.3	8901.8	7492.7	7704.3	7649.4	7694.8	7190.8	7536.2	7648.8	7094.9	7035.4	91330.2
EST DEMAND GEN BY OIL	32.1	29.5	30.7	34.4	27.3	24.9	29.8	28.5	30.6	31.9	30.3	30.3	360.3
PROJ DAILY CONSUMPTION													
COAL (KTONS)	103.40	117.95	126.18	117.58	109.20	112.04	109.07	105.32	106.82	108.42	103.92	99.72	
OIL (KBBL)	2.98	2.65	2.76	3.42	2.45	2.31	2.68	2.65	2.75	2.87	2.82	2.73	
COAL DELIVERIES (KTONS)	3357.0	3229.0	3282.0	3228.0	3244.0	3285.0	3307.0	3223.0	2355.0	3441.0	3353.0	3669.0	38972.9
OIL DELIVERIES (KBBL)	81.73	87.23	93.17	87.12	81.13	73.81	75.90	84.31	81.18	87.82	85.30	82.28	1000.97
END OF MONTH STOCK													
COAL (KTONS)	10342.9	9915.5	9286.1	9221.8	9080.5	9004.4	8930.3	8993.6	8037.2	8117.3	8352.8	8930.5	
OIL (KBBL)	629.4	634.5	642.1	633.4	638.5	643.0	635.7	640.5	636.3	635.3	636.0	633.8	
NUMBER OF DAYS SUPPLY													
COAL	86.	84.	82.	84.	83.	84.	84.	84.	77.	79.	79.	78.	
OIL	233.	233.	235.	238.	235.	232.	229.	227.	222.	228.	232.	232.	

Table 6 Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(November 1979 - October 1980)

OHIO VALLEY ELECTRIC CORPORATION

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	TOTAL
DEMAND FORECAST (GWH)	1416.8	1519.6	1605.2	1375.1	1441.6	1429.7	1446.5	1582.5	1685.9	1685.9	1515.2	1582.6	18286.6
EST DEMAND GEN BY COAL	1338.9	1452.7	1513.7	1332.5	1350.8	1402.6	1446.5	1530.2	1677.5	1837.6	1712.2	1512.9	18108.1
PROJ DAILY CONSUMPTION COAL (KTONS)	19.35	20.31	21.17	20.63	18.89	20.27	20.23	22.11	23.46	25.70	24.74	21.16	
COAL DELIVERIES (KTONS)	606.0	649.0	684.0	593.0	625.0	624.0	723.4	788.4	377.5	845.4	764.4	674.0	7954.0
END OF MONTH STOCK COAL (KTONS)	1553.8	1573.1	1600.9	1616.3	1655.7	1671.7	1768.0	1893.0	1543.3	1592.1	1614.2	1632.4	
NUMBER OF DAYS SUPPLY COAL	75.	77.	81.	82.	80.	77.	76.	77.	61.	71.	80.	81.	

NATURAL GAS

Service shares of the commercial gas distribution companies operating in Ohio are presented in Table 7 for the annual period September 1978 to August 1979. During this period of time, the four large distribution companies, Cincinnati Gas and Electric, Columbia Gas of Ohio, Dayton Power and Light, and East Ohio Gas, jointly distributed 95.04 percent of the reported natural gas requirements of the state. The four intermediate companies, National Gas and Oil, Ohio Gas, River Gas, and West Ohio Gas distributed an additional 4.08 percent of Ohio's reported natural gas requirements. The remaining .88 percent of the reported natural gas requirements was distributed by 22 minor commercial utilities. The figures presented in Table 7 do not include distribution by municipal utilities or self-help natural gas.

Supply

Between September 1978 and August 1979, the eight major gas distribution companies of Ohio, which together account for 99.12 percent of the reported gas distribution in the state, procured 1,008,233 MMCF of natural gas supplies to meet Ohio's requirements. This represents a 1.1 percent increase in the supplies of natural gas to Ohio compared to the same period last year. Interstate gas purchases account for 93.25 percent of this amount. The remaining 6.75 percent of the reported gas supplies of the eight major utilities are accounted for by purchases of Ohio gas. The 68,030 MMCF of Ohio production of natural gas purchased by the eight major gas utilities, between

Table 7 Total Natural Gas Requirements of All Commercial Gas Utilities in Ohio Between September 1978-August 1979
(MMcf)

Company	Sales To All End Users	Storage (In)	Total Requirement (1+2)	Percent of Total Ohio Requirements
CG&E	94,066	----	94,066	9.14
Columbia Gas	365,633	4,262	369,895	35.96
DP&L	66,183	442	66,625	6.48
East Ohio Gas	384,931	62,126	447,057	43.46
National Gas & Oil	12,654	1,251	13,905	1.35
Ohio Gas	7,477	156	7,633	.74
River Gas	5,006	----	5,006	.49
West Ohio Gas	15,249	200	15,449	1.50
Total Eight Major Utilities	951,199	68,437	1,019,636	99.12
Total 22 Minor Utilities	9,067	----	9,067	.88
Total All Commercial Utilities	960,266	68,437	1,028,703	100.00

September 1978 and August 1979, represents a 20.7 percent increase over their purchases of Ohio product in the preceding annual period. This corresponds to approximately one-half of the state's total production. The remainder of the natural gas produced in Ohio is transported directly to end-users in the self-help program.

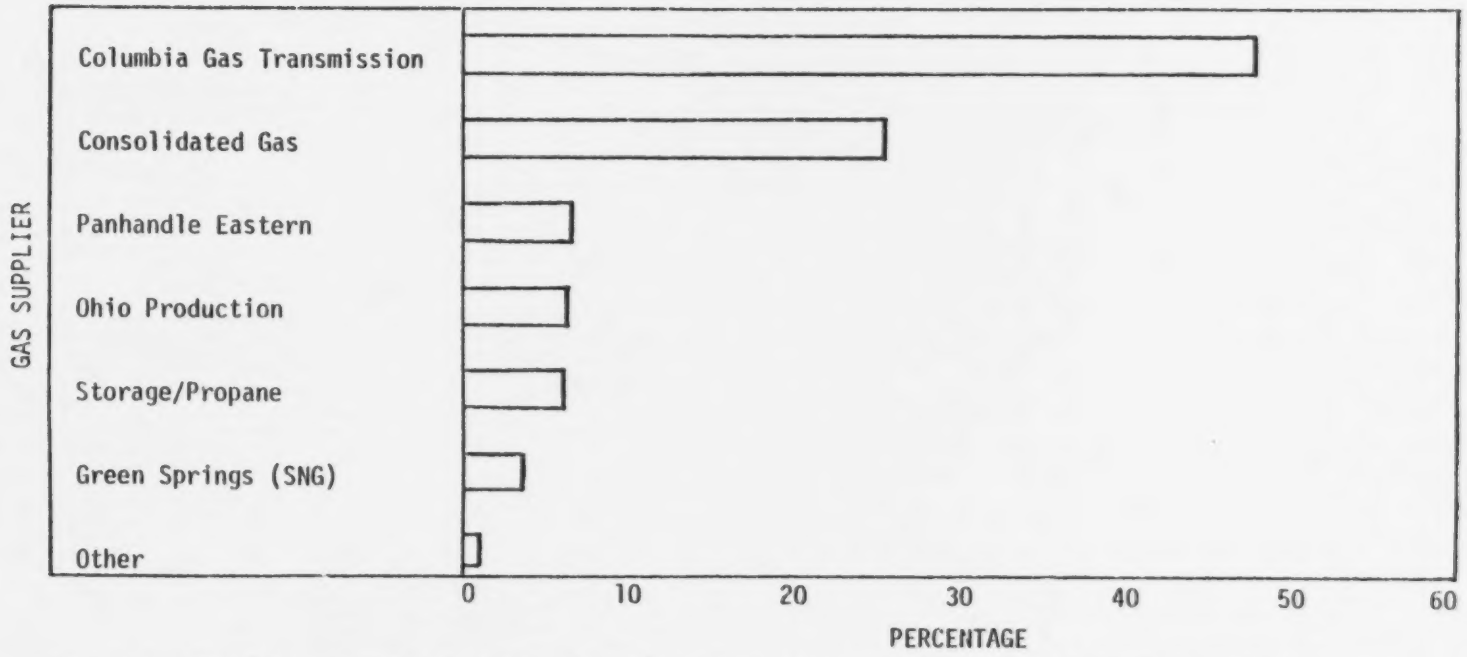
The major sources of natural gas for the state are presented in Table 8 and Figure 9. Domestic interstate gas remains the most important source of supply; however, this source of supply has not grown but has decreased slightly in recent years. The 1.1 percent increase in the supply of natural gas to major Ohio utilities over the previous year is due to increased Ohio production and the increase in imported LNG from interstate gas pipelines. Columbia Gas Transmission and Consolidated Gas companies have provided 75.02 percent of the natural gas supplied to the eight major Ohio gas distribution companies. It would be inferred, from the reported sources of supply to these two interstate pipeline companies, that the interstate natural gas supplies to the eight major Ohio gas utilities included 5.52 percent of LNG during the September 1978 - August 1979 period, and that the share of LNG in the supplies of major Ohio utilities is expected to rise to 7.59 percent during the September 1979 - August 1980 period. The increasing share of LNG, imported mainly from Algeria, along with the increasing share of SNG, in the supplies of interstate gas companies, is expected to reduce the purchases of Ohio product by the state's major gas utilities by 13.6 percent, from 68,030 MMCF in the current period under consideration, down to 58,775 MMCF in the following year. The projected decline in demand for Ohio production can be seen in Table 9, which

Table 8 Sources of Natural Gas Supplies to the Eight Major Ohio Gas Utilities Between September 1978-August 1979 (MMcf)

Source	Supply	Percent of Total	Rank
Columbia Gas Transmission	485,551	48.16	1
Consolidated Gas	270,828	26.86	2
Lawrenceburg	1,206	.12	9
Michigan/Wisconsin	1,051	.10	10
Panhandle Eastern	70,455	6.99	3
Tennessee Gas	1,539	.15	8
Texas Eastern	6,616	.66	7
Texas Gas	277	.03	12
Emergency Gas	039	.00	13
Green Springs (SNG)	37,160	3.69	6
Storage/Propane*	65,136	6.46	5
Other	345	.03	11
Total Out of State Gas	940,203	93.25	
Ohio Product	68,030	6.75	4
Total	1,008,233	100.00	

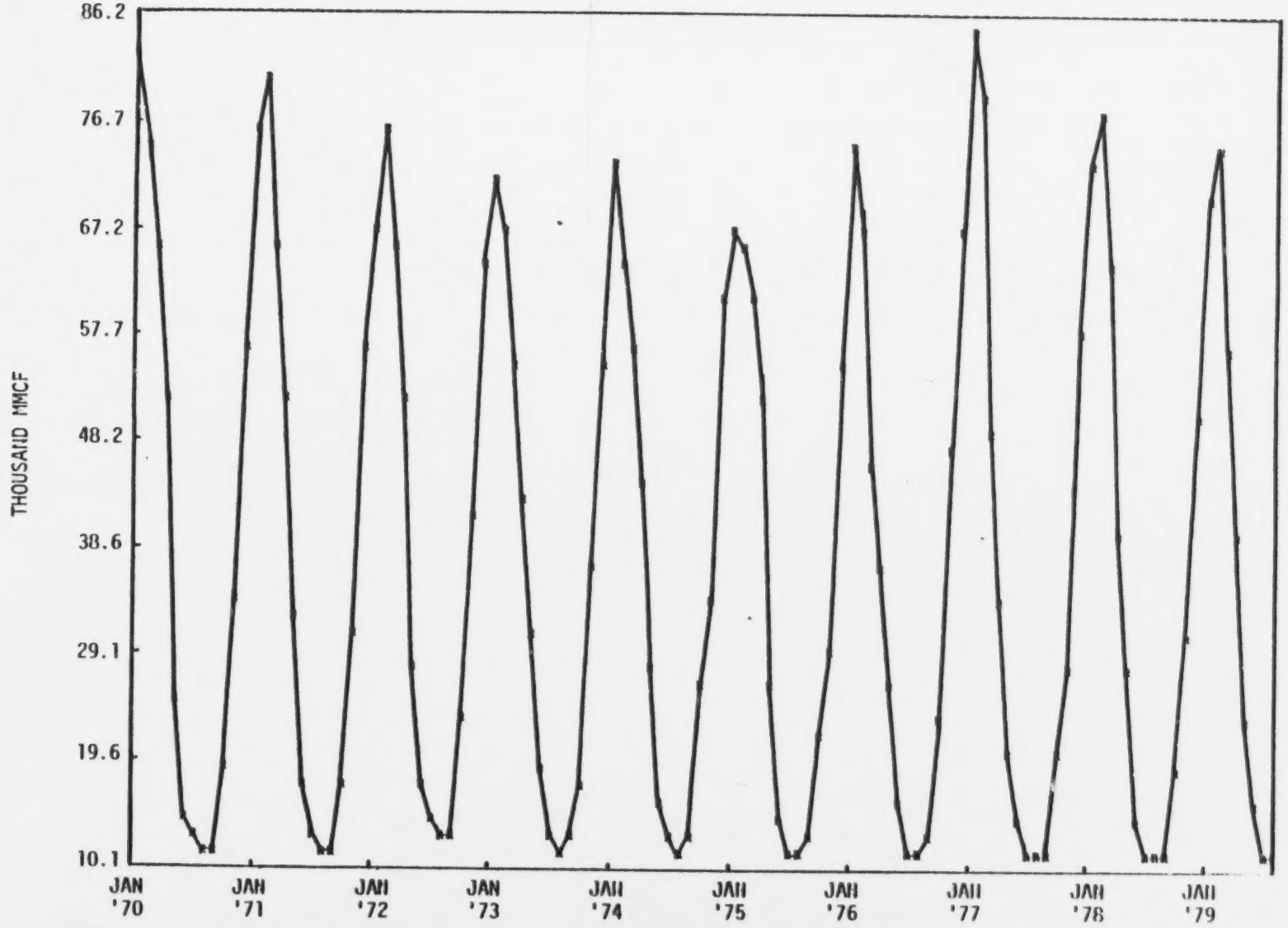
*Gas in storage represents a source of supply in the period under consideration.

Figure 9 Source of Natural Gas Supply to the Eight Major Ohio Gas Utilities (September 1978 - August 1979)



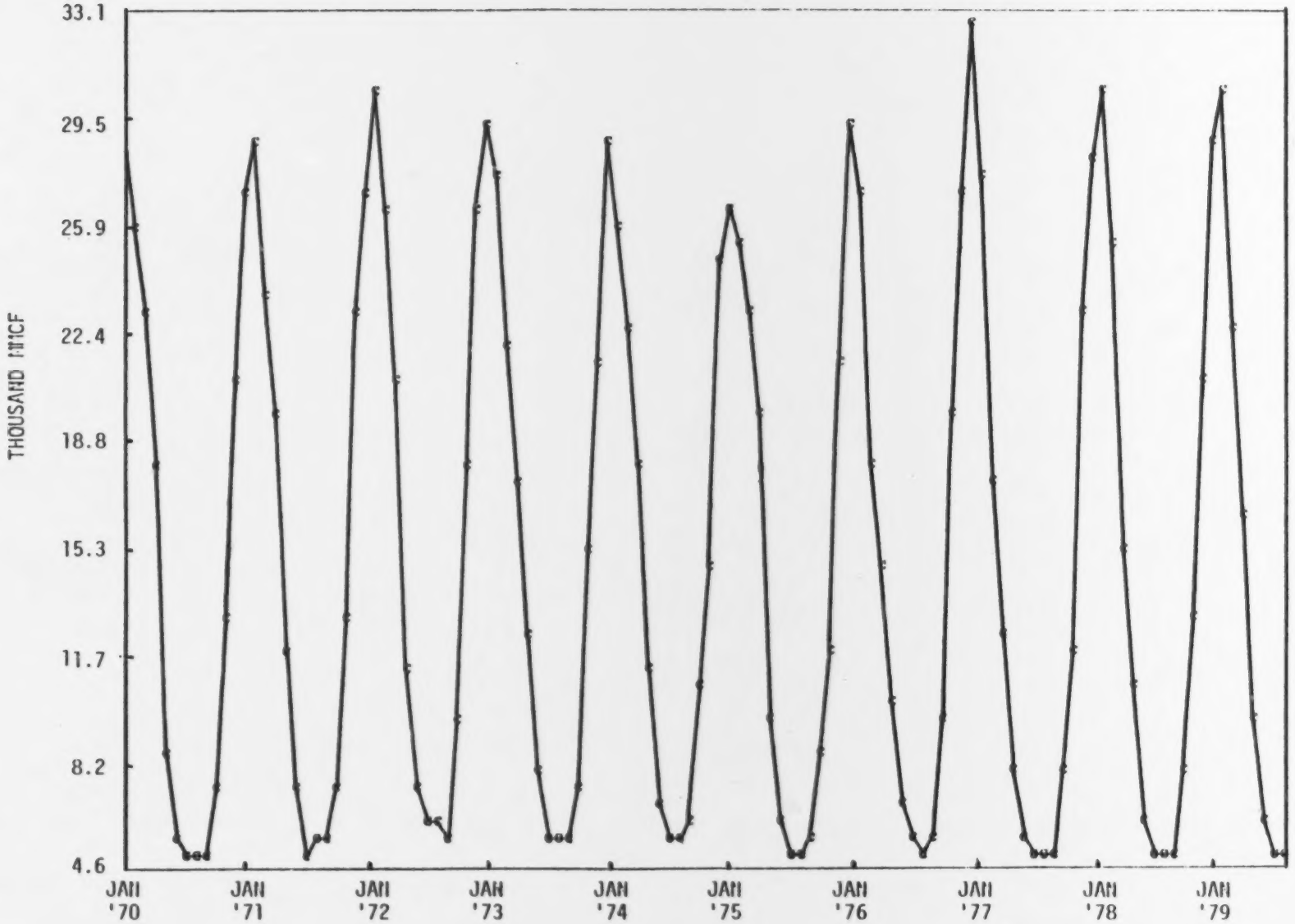
Source: Monthly reports of eight major Ohio gas utilities and the Ohio Department of Energy.

Figure 10 Monthly Ohio Residential Natural Gas Consumption
January 1970 - August 1979



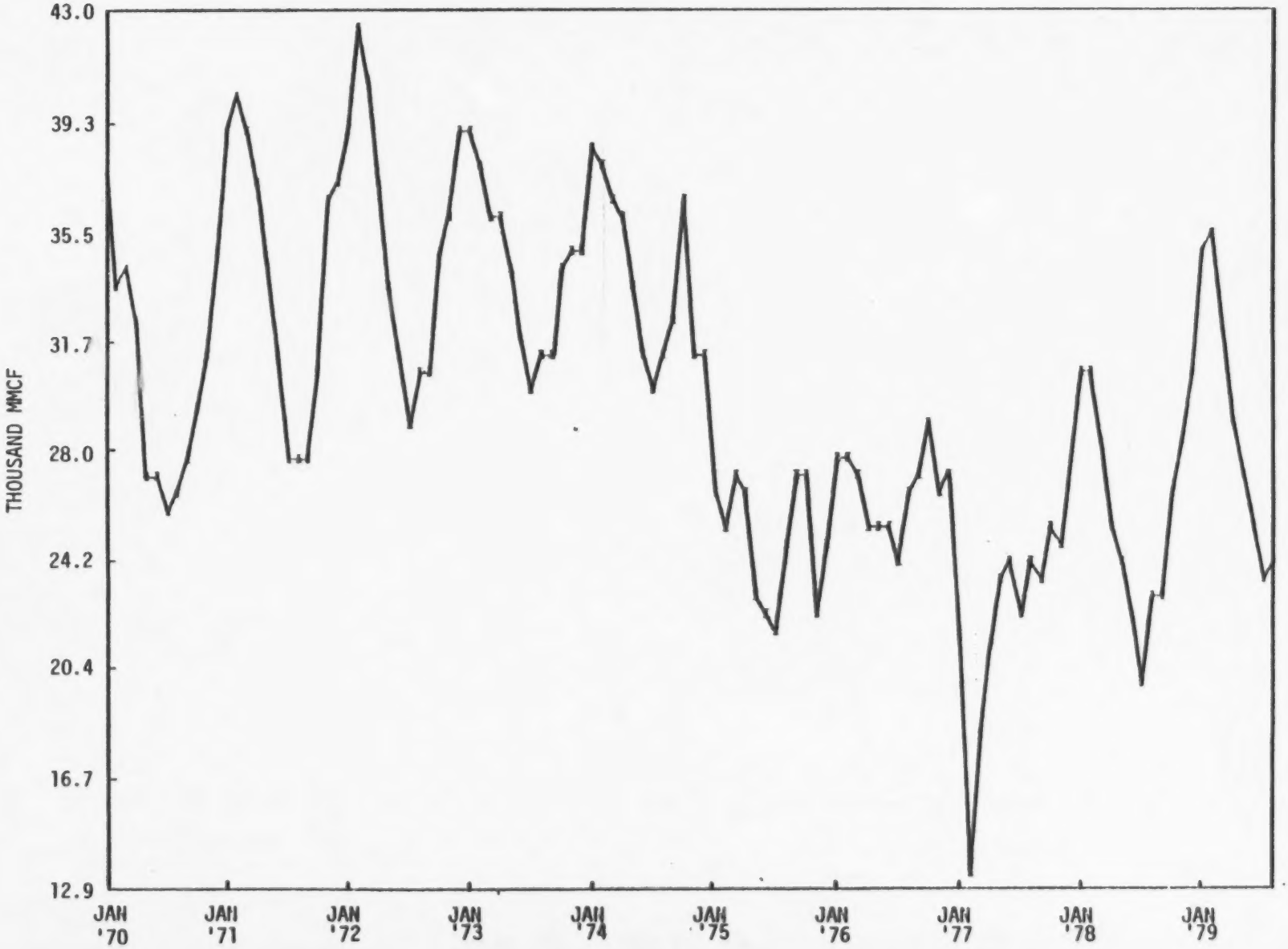
Source: Monthly reports of eight major gas utilities and the Ohio Department of Energy.

Figure 11 Monthly Ohio Commercial Natural Gas Consumption
January 1970 - August 1979



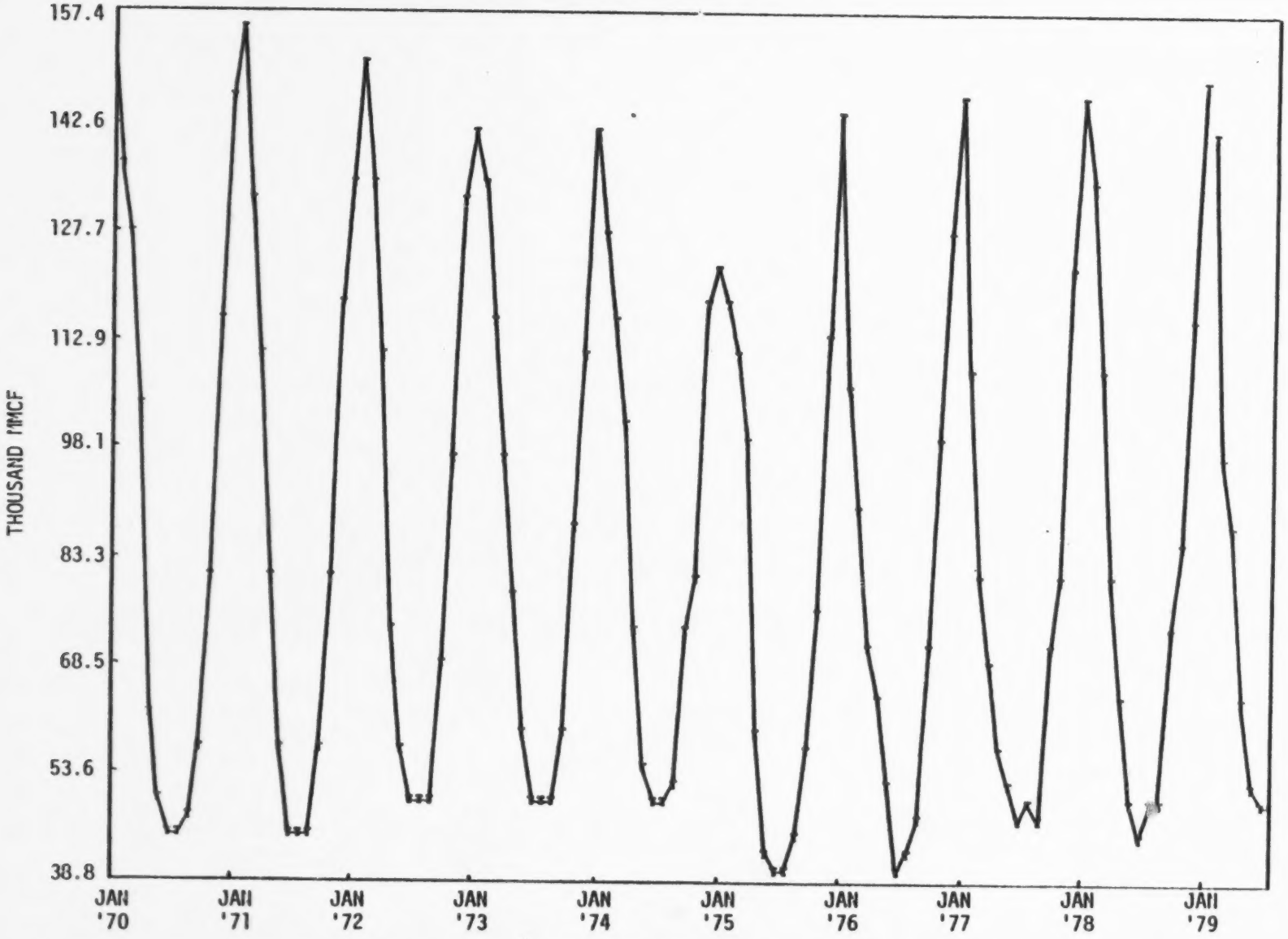
Source: Monthly reports of eight major gas utilities and the Ohio Department of Energy.

Figure 12 Monthly Ohio Industrial Natural Gas Consumption
January 1970 - August 1979



Source: Monthly reports of eight major gas utilities and the Ohio Department of Energy.

Figure 13 Monthly Ohio Total Natural Gas Consumption
January 1970 - August 1979



Source: Monthly reports of eight major gas utilities and the Ohio Department of Energy.

Table 9 Comparison Between One Year of Actual and Forecast Supply for Eight Major Ohio Gas Utilities by Source (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	ENERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/79	22065	18468	124	60	4502	144	520	17	0	4859	1796	153	-5	52703
9/78	19914	14189	141	57	5498	139	426	8	0	5936	1795	116	-225	47994
	10.8%	30.2%	-12.1%	5.3%	-18.1%	3.6%	22.1%	112.5%	0.0%	-18.1%	0.1%	31.9%	97.8%	9.8%
10/79	33887	25140	129	100	4881	147	500	23	0	4888	2473	153	3	72324
10/78	33397	23386	107	112	5960	152	561	18	39	5539	2471	144	-272	71614
	1.5%	7.5%	20.6%	-10.7%	-18.1%	-3.3%	-10.9%	27.8%	-100.0%	-11.8%	0.1%	6.3%	101.1%	1.0%
11/79	48994	17950	104	140	4924	152	540	36	0	4831	3643	12014	-23	93305
11/78	41516	19707	42	126	5672	123	550	25	0	6211	3640	6277	402	84291
	18.0%	-8.9%	147.6%	11.1%	-13.2%	23.6%	-1.8%	44.0%	0.0%	-22.2%	0.1%	91.4%	-105.7%	10.7%
12/79	67238	23996	77	175	5280	155	660	41	0	4875	4785	18788	-32	126038
12/78	60275	19604	42	171	6161	136	521	39	0	5745	4403	19657	862	117616
	11.6%	22.4%	83.3%	2.3%	-14.3%	14.0%	26.7%	5.1%	0.0%	-15.1%	8.7%	-4.4%	-103.7%	7.2%
1/80	73812	30456	77	180	5325	156	620	48	0	4989	5095	17511	-24	138227
1/79	80799	37264	23	202	6169	139	605	55	0	5365	5091	16116	-87	151741
	-8.6%	-18.3%	234.8%	-10.9%	-13.7%	12.2%	2.5%	-27.3%	0.0%	-7.0%	0.1%	8.7%	72.4%	-8.9%
2/80	64244	32204	94	155	4838	140	600	36	0	4868	4782	11219	106	123308
2/79	75760	37798	14	184	5707	121	465	48	0	5572	4779	12985	-17	143416
	-15.2%	-14.8%	585.7%	-15.8%	-15.2%	15.7%	29.0%	-25.0%	0.0%	-12.3%	0.1%	-13.6%	723.5%	-14.0%
3/80	58670	25467	144	140	5279	155	550	29	0	4873	4378	9503	520	109918
3/79	50057	22750	60	143	6329	128	525	28	0	4806	4366	8064	348	97604
	17.2%	12.8%	140.0%	11.9%	-16.6%	21.1%	4.8%	3.6%	0.0%	1.4%	0.3%	17.8%	49.4%	12.6%
4/80	43900	31736	154	100	3925	155	660	28	0	4978	3177	181	38	89032
4/79	40421	28725	121	26	5939	125	586	21	0	5666	3175	1047	-51	85801
	8.6%	10.5%	27.3%	284.6%	-33.9%	24.0%	12.6%	33.3%	0.0%	-12.1%	0.1%	-82.7%	174.5%	3.8%
5/80	31667	24271	128	80	5973	0	620	10	0	4904	2324	153	74	70204
5/79	26561	21513	211	10	5941	123	609	11	0	5603	2320	271	-208	62965
	19.2%	12.8%	-39.3%	700.0%	0.5%	-100.0%	1.8%	-9.1%	0.0%	-12.5%	0.2%	-43.5%	135.6%	11.5%
6/80	23908	17645	195	65	5697	153	645	7	0	4886	1829	153	-17	55166
6/79	20119	16371	200	7	5608	116	542	8	0	6115	1826	153	-232	50833
	18.8%	7.8%	-2.5%	828.6%	1.6%	31.9%	19.0%	-12.5%	0.0%	-20.1%	0.2%	0.0%	92.7%	8.5%
7/80	22076	15122	120	50	5815	150	660	7	0	4905	1634	153	-7	50605
7/79	17738	14882	245	6	5718	112	572	8	0	5568	1633	159	-314	46317
	24.5%	1.6%	-51.0%	733.3%	1.7%	33.9%	15.4%	-12.5%	0.0%	-11.8%	0.1%	-3.8%	97.8%	9.4%
8/80	22963	14565	124	55	5918	150	680	7	0	4879	1661	153	-17	51058
8/79	18994	14639	0	7	5753	125	654	8	0	5912	1661	147	141	48041
	20.9%	-0.5%	999.9%	685.7%	2.9%	20.0%	4.3%	-12.5%	0.0%	-17.5%	0.0%	4.1%	-112.1%	6.3%
SUMMER TOTAL														
	200466	146947	974	510	36711	899	4205	99	0	34299	14894	1099	69	441172
	177144	133705	1025	225	40417	892	3950	82	39	40331	14881	2037	-1163	413565
	13.2%	9.9%	-5.0%	126.7%	-9.2%	0.8%	6.5%	20.7%	-100.0%	-15.0%	0.1%	-46.0%	105.9%	6.7%
WINTER TOTAL														
	312958	130273	498	810	25646	758	2970	182	0	24456	22683	69035	547	590796
	308407	137123	181	826	30038	647	2666	195	0	27699	22279	63099	1508	594668
	1.5%	-5.0%	175.1%	-1.9%	-14.6%	17.2%	11.4%	-6.7%	0.0%	-11.7%	1.8%	9.4%	-63.7%	-0.7%
YEAR TOTAL														
	513424	277220	1472	1320	62357	1657	7175	281	0	58755	37577	70134	616	1031968
	485551	270828	1206	1051	70455	1539	6616	277	39	68030	37160	65136	345	1008233
	5.7%	2.4%	22.1%	25.6%	-11.5%	7.7%	8.4%	1.4%	-100.0%	-13.6%	1.1%	7.7%	78.6%	2.4%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

exhibits a monthly comparison of actual and projected supplies, by source, of the eight major gas utilities. Actual gas supplies of individual utilities for the past two years are listed in Appendix B, Tables B-1 through B-8.

Historical Consumption

The regularities in the monthly time series behavior of residential, commercial, industrial and total natural gas consumption in Ohio, from January 1970 through August 1979, are displayed in Figures 10, 11, 12, and 13. The seasonal variation in residential and commercial consumption can easily be discerned from these figures. Natural gas usage in all sectors peaks during the heating season, and falls off during the cooling season because of space heating requirements. The effect of curtailments enforced during the 1976-77 heating season on industry is dramatically shown in Figure 12.

For the state as a whole, reported requirements of natural gas have declined since the 1972-1973 period. The greatest reduction in the reported requirements has taken place within the industrial customer class. This can be seen as a direct result of the natural gas deficiencies in the respective years, and led to relatively steep increases in natural gas prices, as well as curtailments of industrial base allocations; which in turn, have led to implementation of effective natural gas conservation measures, and conversions to alternate fuels on the part of the curtailed industrial customers. The recent increase in the relative availability of natural gas supplies to Ohio, along with the even more recent dramatic increases in the prices of the major alternatives to natural gas, i.e. distillate fuel oils, may be expected to stabilize the trend of declining natural gas consumption in Ohio, and even turn it around in the years to come.

The influence of high natural gas prices and low availability in the 1972-1978 period has influenced the residential consumption of natural gas as well. The weather sensitivity of residential consumption has been declining continuously in the service areas of the four large utilities from 1973 through 1978. As mentioned above, the increase in the price of fuel oil, along with greater availability of natural gas, seems to have stabilized the behavior of the weather sensitivity of residential natural gas consumption in 1979. This can be easily inferred from Table 10, where the residential response, in terms of increased MMCF's of natural gas consumed per unit increase in heating degree days per annum, is listed by the service areas of the four largest distribution companies, for each year from 1970 through the first nine months of 1979. In addition to indicating the differences in the weather sensitivity of residential consumption across different utility service areas, the declining values of the MMCF/Heating Dégree Day coefficients for each utility service area, over the six or seven years preceding 1979, clearly testify to extensive gas conservation amont sigificant numbers of residential customers. Table 10, when considered with the fact that residential energy consumption in Ohio has not increased significantly since 1976, can be interpreted to reflect, in part, the effectiveness of the conservation promotion programs implemented by the ODOE.

Since natural gas is the primary source of heating fuel for the residential and commercial sectors, over 60 percent of the natural gas consumed in Ohio is used during the winter heating season. Table 11 shows the actual and projected aggregate monthly demand by sector for the eight major distribution companies. Figure 14 shows projected monthly consumption by sector for Ohio.

Table 10 Average Increase in Residential Natural Gas Consumption Per Unit Increase in Heating Degree Days (1970-1979)

MMCF/Heating Degree Days

Year	Cincinnati Gas and Electric	Columbia Gas	Dayton Power and Light	East Ohio Gas
1970	6.43	21.64	5.69	22.95
1971	6.96	24.04	6.04	23.57
1972	6.95	23.81	5.77	24.22
1973	6.78	23.68	5.72	23.04
1974	6.78	23.35	5.58	24.21
1975	6.83	22.73	5.61	24.34
1976	6.34	21.22	5.04	22.52
1977	5.15	18.95	4.79	20.44
1978	5.11	18.00	4.54	19.74
1979*	5.24	18.52	4.50	20.74

* First nine months.

Source: O.S.U. Gas Model, monthly reports of four Ohio gas utilities and the Ohio Department of Energy.

Table 1) Comparison between One Year of Actual and Forecast Demand for Eight Major Ohio Gas Utilities by Sector
(MMCF)

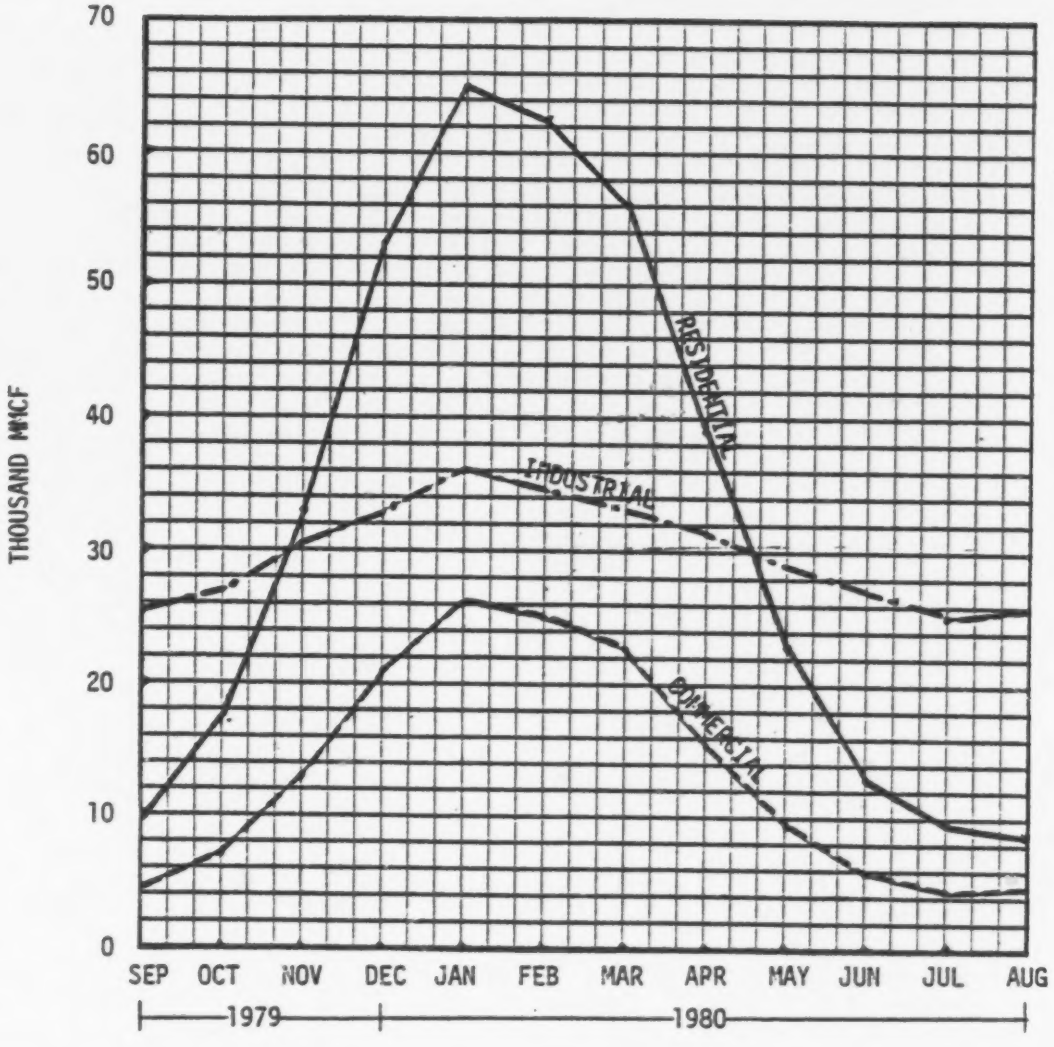
MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	87	9912	4652	25468	4416	1605	54352	1649
9/78	87	8575	4168	22862	2016	10372	47993	-1
	0.0%	15.6%	11.6%	11.4%	119.0%	-84.5%	13.2%	********%
10/79	334	17400	7284	27185	11279	384	70347	-1977
10/78	334	17461	7296	26497	13246	7114	71614	0
	0.0%	-0.3%	-0.2%	2.6%	-14.8%	-94.6%	-1.8%	999.9%
11/79	690	32915	13303	30501	13727	0	90446	-2859
11/78	686	29993	12578	28300	13302	119	84292	1
	0.6%	9.7%	5.8%	7.8%	3.2%	-100.0%	7.3%	********%
12/79	1052	53246	21116	32888	12951	0	120378	-5660
12/78	1028	50474	20755	30658	15106	12	117006	-610
	2.3%	5.5%	1.7%	7.3%	-14.3%	-100.0%	2.9%	-827.9%
1/80	1141	64973	26133	36054	7795	1326	136280	-1947
1/79	1124	71465	28932	35282	15302	760	151740	-1
	1.5%	-9.1%	-9.7%	2.2%	-49.1%	74.5%	-10.2%	********%
2/80	980	62596	25130	34671	-5673	1326	118050	-5258
2/79	977	75915	31099	36007	-859	1253	143415	-1
	0.3%	-17.5%	-19.2%	-3.7%	-560.4%	5.8%	-17.7%	********%
3/80	823	56109	22569	33254	-6282	0	105650	-4268
3/79	814	56373	22639	32484	-14087	194	97603	-1
	1.1%	-0.5%	-0.3%	2.4%	55.4%	-100.0%	8.2%	********%
4/80	735	38891	15694	31368	-9277	9022	85698	-3334
4/79	455	39216	15873	29067	-7181	8826	85801	0
	61.5%	-0.8%	-1.1%	7.9%	-29.2%	2.2%	-0.1%	999.9%
5/80	202	23133	9556	28921	-5134	11997	68473	-1731
5/79	196	22720	8823	26907	-6452	10967	62965	0
	3.1%	1.8%	8.3%	7.5%	20.4%	9.4%	8.7%	999.9%
6/80	30	13053	5800	27280	-2989	11624	54768	-398
6/79	29	13577	5331	25295	-3073	9703	50833	0
	3.4%	-3.9%	8.8%	7.8%	2.7%	19.8%	7.7%	999.9%
7/80	5	8966	4359	25360	420	11083	50188	-497
7/79	5	9633	4167	23057	401	9659	46917	600
	0.0%	-6.9%	4.6%	10.0%	4.7%	14.7%	7.0%	-182.8%
8/80	11	8602	4704	25951	2003	10009	50769	-289
8/79	11	9389	4209	24040	945	9458	48041	0
	0.0%	-8.4%	11.8%	7.9%	112.0%	5.8%	5.7%	999.9%
SUMMER TOTAL	1404	119957	52049	191533	718	55724	434595	-6577
	1117	120571	49867	177725	-98	66099	414164	599
	25.7%	-0.5%	4.4%	7.8%	832.7%	-15.7%	4.9%	-1198.0%
WINTER TOTAL	4686	269839	108251	167368	22518	2652	570804	-19992
	4629	284220	116003	162731	28764	2338	594056	-612
	1.2%	-5.1%	-6.7%	2.8%	-21.7%	13.4%	-3.9%	-3166.7%
YEAR TOTAL	6090	389796	160300	358901	23236	58376	1005399	-26569
	5746	404791	165870	340456	28666	68437	1008220	-13
	6.0%	-3.7%	-3.4%	5.4%	-18.9%	-14.7%	-0.3%	********%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Figure 14 Projected Gas Requirements for Ohio by Sector
Eight Major Companies
(September 1979 - August 1980)



Source: Monthly projections of eight major gas companies and the Ohio Department of Energy.

Variations in monthly natural gas consumption patterns across different utility service areas can be observed in Appendix B Tables B-9 through B-16. In general, since residential and commercial consumption of natural gas are much more weather sensitive than industrial usage, the number of customers in the residential and commercial sectors dramatically affects the seasonal fluctuation in the demand for natural gas.

Alternate Fuel Capability Profile

Results of the aggregated alternate fuel capability data for Ohio are presented in Table 12. There were no actual natural gas curtailments during the 1978-79 heating season. Curtailments during the cooling season were down by 51 percent compared to the previous cooling season, and total annual curtailments were down 73 percent compared to the previous annual period. Close to 40 percent of the curtailments were offset by increased use of No. 1 and No. 2 Heating Oil, and all customers curtailed had sufficient alternate fuel capabilities to offset their curtailments. Twenty-five percent of the curtailments required no alternate fuel at all. This decrease in demand is probably due to conservation, and customer attrition, or structural changes in the demand for natural gas as a result of the past several years of curtailments.

Twelve-Month Outlook

The outlook for the next twelve months indicates no serious shortages under normal weather conditions and even 10 percent colder than normal. For the first time in the past several years the four largest gas utilities in Ohio have either received permission, applied, or are preparing to apply, to the PUCO for permission to hook up new customers.

Table 12 Total Alternate Fuels Used to Offset Curtailments of Ohio Natural Gas Companies (MMCF Equivalent)

End-User Alternate Fuel	Apr. '78 - Oct. '78	Nov. '78 - Mar. '79	Annual Total	% of Curtailment
No. 1 & No. 2 Heating Oil	7,430	0	7,430	39.83
No. 4 Oil	0	0	0	0
Residual Oils	3,608	0	3,608	19.34
Propane	607	0	607	3.26
Coal	618	0	618	3.31
Electricity	0	0	0	0
Other	1,431	0	1,431	7.67
No Alternate Fuel Required	4,745	0	4,745	25.44
No. 533 Gas	47	0	47	.25
Other than No. 533 Gas	168	0	168	.90
No Alternate Fuel Capacity	0	0	0	0
Total	18,654	0	18,654	100.00

Source: Energy Information Administration Form EIA-50.

Utility Forecasts

Utility forecasts for the next twelve months project no deficiencies for Ohio under normal weather conditions. Supply and demand projections of the eight major utilities, as presented in Table 13 and Figure 15, indicate a 2.6 percent annual surplus of natural gas supplies over demand. Furthermore, all eight utilities project supply to be in excess of demand during the 1980 cooling season, as well as the 1979-1980 heating season.

The forecasts presented in Table 13 and Figure 15 are the actual supply and demand projections submitted by the utilities.

Independent Forecast

The law which created the Ohio Department of Energy requires the development of independent ODOE forecasting capability within the Department and the preparation of independent forecasts. Independent natural gas demand forecasts based on two alternate methodologies have been developed by the ODOE for the eight major gas utilities serving Ohio. The first methodology employs regression analysis to forecast demand for each major utility as a function of the normal and ten percent colder than normal temperature scenarios, submitted by the respective utilities in their most recent ODOE SG-2 forms. The results of this analysis are presented in Table 14. It is concluded, on the basis of the indicated supply projections of the individual utilities, and the independent demand projections of the ODOE, that no deficiencies will be experienced by any of the major Ohio gas distribution companies in the 1979-80 heating season, both under normal, and under ten percent colder than normal temperature scenarios.

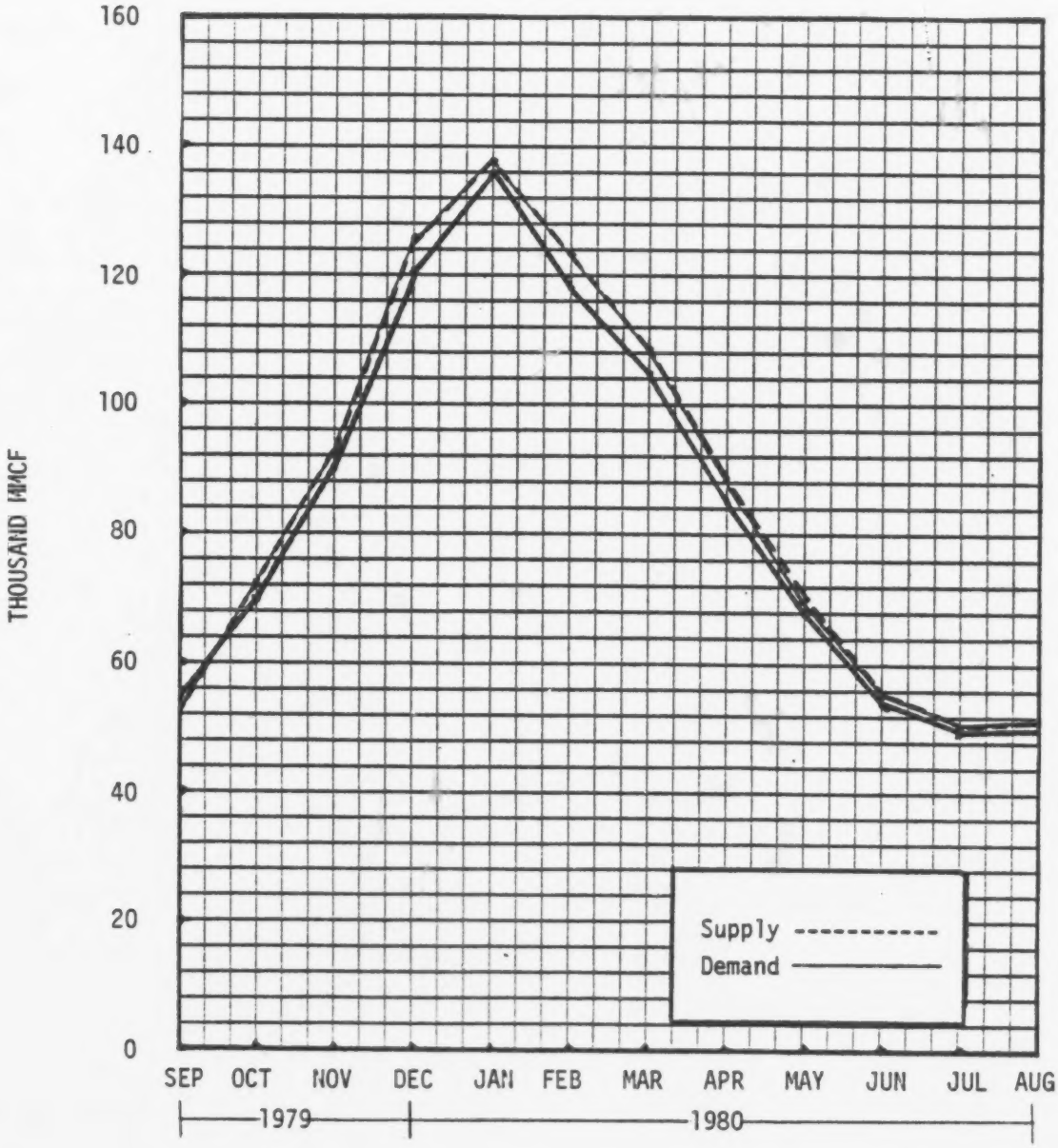
Table 13 Projected Aggregate Supply and Demand for Natural Gas for Eight Major Ohio Gas Utilities
September 1979 - August 1980
(MMCF)

Month/Year	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	Summer	Winter	Year
Supply	52,703	72,324	93,305	126,038	138,227	123,308	109,918	89,032	70,204	55,166	50,685	51,058	441,172	590,796	1,031,968
Demand	54,352	70,347	90,446	120,378	136,280	118,050	105,650	85,698	68,473	54,768	50,188	50,769	434,595	570,804	1,005,399
Deficiency	1,649	-1,977	-2,859	-5,660	-1,947	-5,258	-4,268	-3,334	-1,731	-398	-497	-289	-6,577	-19,992	-26,569
Percent Deficiency	3.1	-2.7	-3.1	-4.5	-1.4	-4.3	-3.9	-3.7	-2.5	-0.7	-1.0	-0.6	-1.5	-3.4	-2.6

Note: A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: ODOE Form SG-1 of eight major gas utilities and the Ohio Department of Energy.

Figure 15 Projected Supply and Demand of Natural Gas for Ohio
Eight Major Companies
(September 1979 - August 1980)



Source: Monthly projections of eight major gas utilities and the Ohio Department of Energy.

Table 14 Independent Forecasts of Natural Gas Supply and Demand for the Eight Major Ohio Gas Utilities November 1979 - March 1980 (MMCF)

	Normal Weather			10% Colder Than Normal Weather		
	Supply	Demand	Deficiency	Supply	Demand	Deficiency
CG&E	63,519	53,531	-9,988	67,262	57,276	-9,986
Col. Gas	216,978	192,058	-24,920	231,203	204,048	-27,155
DP&L	43,062	38,926	-4,136	46,058	41,813	-4,245
EOG	231,537	229,387	-2,150	246,121	240,629	-5,492
NG&O	7,139	6,850	-289	7,139	6,850	-289
Ohio Gas	5,852	4,744	-1,108	5,852	5,041	-811
River Gas	3,448	3,448	---	3,629	3,629	---
West Ohio Gas	9,607	9,607	---	10,223	10,223	---
TOTAL	581,142	538,551	42,591	617,487	569,509	-47,978

Note: A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: November 1, 1979 SG-2 Forms of the reporting utilities, and the Ohio Department of Energy.

The second methodology employed by the ODOE to forecast natural gas demand in each major utility service area is based upon Box-Jenkins type time series models of monthly natural gas requirements of the respective utilities between January 1970 and September 1979. Such models when properly identified yield projections that possess desirable statistical properties and are deemed to be as accurate as, or more accurate than, alternative short-term forecasting techniques. They also have the added flexibility of yielding updated forecasts every time the most recent actual monthly requirements are reported to the ODOE. The use of alternative methodologies is expected to provide a double check and reduce forecasting errors, and thus, lead to a more accurate and decisive diagnosis of impending shortages.

Independent monthly forecasts for the four large gas utilities, reflecting their projections of normal and ten percent colder than normal weather conditions, are presented in Tables 15 through 18, along with monthly forecasts based on time series models of the respective utilities. Our conclusions concerning no expected shortages or curtailments of natural gas during the heating season of 1979-80 remain unchanged when time series projections of natural gas demand are compared with projected supplies under ten percent colder than normal weather conditions.

Table 15 Independent Forecasts of Gas Supply and Demand for
Cincinnati Gas and Electric Company
November 1979 - March 1980
(MMCF)

	Normal Weather				10% Colder Than Normal Weather				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD*	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
Nov. '79	10,007	636	8,800	-1,207	10,568	700	9,361	-1,207	10,568	8,407	-2,161
Dec. '79	13,906	970	11,729	-2,177	14,757	1,067	12,580	-2,177	14,757	12,750	-2,007
Jan. '80	14,770	1,051	12,439	-2,331	15,690	1,156	13,360	-2,330	15,690	16,250	560
Feb. '80	12,837	888	11,009	-1,828	13,617	977	11,790	-1,827	13,617	13,339	-278
Mar. '80	11,999	722	9,554	-2,445	12,630	794	10,185	-2,445	12,630	9,698	-2,932
TOTAL	63,519		53,531	-9,988	67,262		57,276	-9,986	67,262	60,444	-6,818

Note: Totals may not add due to independent rounding
*HDD - Heating Degree Days
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: November 1, 1979 SG-2 Forms of the reporting utility, and the Ohio Department of Energy.

Table 16 Independent Forecasts of Gas Supply and Demand for Columbia Gas
November 1979 - March 1980
(MMCF)

	Normal Weather				10% Colder Than Normal Weather				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD*	Demand	Deficiency	Supply	HDD*	Demand	Deficiency	Supply	Demand	Deficiency
Nov. '79	35,245	570	28,920	-6,325	36,840	627	30,371	-6,469	36,840	32,123	-4,717
Dec. '79	46,671	951	38,620	-8,051	49,462	1,046	41,039	-8,423	49,462	45,152	-4,310
Jan. '80	53,599	1,173	44,273	-9,326	57,145	1,290	47,251	-9,894	57,145	54,791	-2,354
Feb. '80	41,623	1,102	42,465	842	45,031	1,212	45,265	234	45,031	47,357	2,326
Mar. '80	39,840	918	37,780	-2,060	42,725	1,010	40,122	-2,603	42,725	37,098	-5,627
TOTAL	216,978		192,058	-24,920	231,203		204,048	-27,155	231,203	216,521	-14,682

Note: Totals may not add due to independent rounding
*HDD - Heating Degree Days
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus

Source: November 1, 1979 SG-2 Forms of the reporting utility, and the Ohio Department of Energy.

Table 17 Independent Forecast of Gas Supply and Demand for
Dayton Power and Light Company
November 1979 - March 1980
(MMCF)

	Normal Weather				10% Colder Than Normal				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
Nov. '79	[illegible]	509	5,303	-834	6,479	560	5,633	-846	6,479	5,525	-954
Dec. '79	[illegible]	867	7,616	-1,096	9,295	954	8,178	-1,117	9,295	8,357	-938
Jan. '80	[illegible]	1,104	9,147	-826	10,710	1,214	9,857	-853	10,710	11,066	356
Feb. '80	10,123	1,108	9,173	-950	10,867	1,219	9,890	-977	10,867	11,367	500
Mar. '80	8,117	878	7,687	-430	8,707	966	8,255	-452	8,707	7,700	-1,007
TOTAL	43,062		38,926	-4,136	46,058		41,813	-4,245	46,058	44,015	-2,043

Note: Totals may not add due to independent rounding.
HDD - Heating Degree Days
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: November 1, 1979 SG-2 Forms of the reporting utility, and the Ohio Department of Energy.

Table 18 Independent Forecast of Gas Supply and Demand for
East Ohio Gas Company
November 1979 - March 1980
(MMCF)

	Normal Weather				10% Colder Than Normal				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
Nov. '79	37,128	517	35,515	-1,613	38,990	569	36,731	-2,259	38,990	35,672	-3,318
Dec. '79	49,637	946	45,541	-4,096	52,524	1,041	47,761	-4,763	52,524	49,834	-2,690
Jan. '80	53,021	1,192	51,290	-1,731	57,335	1,311	54,071	-3,264	57,335	59,592	2,257
Feb. '80	49,102	1,137	50,005	903	52,114	1,251	52,669	555	52,114	53,867	1,753
Mar. '80	42,649	1,010	47,036	4,387	45,158	1,111	49,397	4,239	45,158	41,584	-3,574
TOTAL	231,537		229,387	-2,150	246,121		240,629	-5,492	246,121	240,549	-5,572

Note: Totals may not add due to independent rounding.
HDD - Heating Degree Days
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: November 1, 1979 SG-2 Forms of the reporting utility, and the Ohio Department of Energy.

APPENDIX A

FORECAST OF ELECTRICITY DEMAND

BY UTILITY

TABLE A-1 ALLEGHENY POWER SYSTEM:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	2559	2685	4.9	2689	5.1
December	2815	3017	7.2	2934	4.2
January	3082	3199	3.8	3126	1.4
February	2852	2915	2.2	2815	-1.3
March	2775	2854	2.8	2787	0.4
April	2524	2660	5.4	2597	2.9
May	2516	2607	3.6	2616	4.0
June	2432	2596	6.7	2587	6.4
July	2504	2652	5.9	2652	5.9
August	2643	2731	3.3	2758	4.4
September	2439	2652	8.7	2609	7.0
October	2647	2776	4.9	2752	4.0

*Source of demand figures is FPC Form 12E-2.

TABLE A-2 AMERICAN ELECTRIC POWER:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	6083	6418	5.5	6398	5.2
December	6856	7364	7.4	7135	4.1
January	7645	7674	0.4	7792	1.9
February	6951	6874	-1.1	6949	0.0
March	6589	6818	3.5	6581	-0.1
April	5941	6219	4.7	5951	0.2
May	5933	5965	0.5	5978	0.8
June	5883	5707	-3.0	5957	1.3
July	5940	6127	3.1	6099	2.7
August	6243	6374	2.1	6405	2.6
September	5635	6064	7.6	5992	6.3
October	----	6065	---	6257	---

*Source of demand figures is FPC Form 12E-2. October actual figures unavailable.

TABLE A-3 CINCINNATI GAS AND ELECTRIC:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	1147	1187	3.5	1229	7.1
December	1279	1391	8.8	1364	6.6
January	1457	1413	-3.0	1494	2.5
February	1318	1179	-10.5	1313	-0.4
March	1229	1195	-2.8	1270	3.3
April	1115	1125	0.9	1168	4.8
May	1164	1225	5.2	1240	6.5
June	1255	1277	1.8	1360	8.4
July	1327	1532	15.4	1490	12.3
August	1389	1495	7.6	1479	6.5
September	1179	1197	1.5	1277	8.3
October	----	1196	---	1260	---

*Source of demand figures is FPC Form 12E-2. October actual figures unavailable.

TABLE A-4 CLEVELAND ELECTRIC ILLUMINATING:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change ODOE Forecast vs. Actual)
November	1571	1608	2.4	1638	4.3
December	1692	1690	-0.1	1723	1.8
January	1820	1821	-0.1	1785	-1.9
February	1672	1637	-2.1	1645	-1.6
March	1693	1666	-1.6	1725	1.9
April	1559	1577	1.2	1623	4.1
May	1640	1629	-0.7	1685	2.7
June	1651	1670	1.2	1727	4.6
July	1684	1744	3.6	1773	5.3
August	1693	1748	3.2	1796	6.1
September	1520	1628	7.1	1614	6.2
October	1572	1659	5.5	1640	4.3

*Source of demand figures is FPC Form 12, Schedule 14, Column 9.

TABLE A-5 COLUMBUS AND SOUTHERN OHIO ELECTRIC:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	729	820	12.5	778	6.7
December	825	899	9.0	881	6.8
January	935	1002	7.2	980	4.8
February	839	837	-0.2	862	2.7
March	774	806	4.1	790	2.1
April	698	765	9.6	712	2.0
May	718	806	12.3	741	3.2
June	749	868	15.9	832	11.1
July	799	940	17.6	890	11.4
August	821	878	6.9	881	7.3
September	720	806	11.9	793	10.1
October	---	816	---	771	---

*Source of demand figures is FPC Form 12E-2. October actual figures unavailable.

TABLE A-6 DAYTON POWER AND LIGHT:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	863	907	5.1	916	6.1
December	966	1005	4.0	1023	5.9
January	1124	1052	-6.4	1144	1.8
February	1018	979	-3.8	1024	0.6
March	926	972	5.0	964	4.1
April	823	859	4.4	856	4.0
May	813	863	6.2	863	6.2
June	832	882	6.0	916	10.1
July	874	979	12.0	963	10.2
August	934	966	3.4	989	5.9
September	820	870	6.1	902	10.0
October	848	923	8.8	908	7.1

*Source of demand figures is FPC Form 12E-2. October actual figures unavailable.

TABLE A-7 OHIO EDISON (CONSOLIDATED):
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	1996	2083	4.4	2070	3.7
December	2149	2215	3.1	2215	3.1
January	2360	2345	-0.6	2334	-1.1
February	2148	2096	-2.4	2090	-2.7
March	2130	2243	5.3	2143	0.6
April	1932	2065	6.9	1997	3.4
May	1989	2047	2.9	2052	3.2
June	1975	2138	8.3	2081	5.4
July	2014	2157	7.1	2138	6.2
August	2090	2237	7.0	2210	5.7
September	1920	2074	8.0	2083	8.5
October	2048	2152	5.1	2126	3.8

*Source of demand figures is FPC Form 12E-2. October actual figures unavailable.

TABLE A-8 OHIO VALLEY ELECTRIC CORPORATION:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change
November	1353	1417	4.7
December	1433	1520	6.1
January	1356	1605	18.4
February	1258	1375	9.3
March	1414	1442	2.0
April	1342	1430	6.6
May	1429	1446	1.2
June	1362	1582	16.2
July	1251	1686	34.8
August	1187	1686	42.0
September	1148	1515	32.0
October	585	1583	170.6

*Source of demand figures is FPC Form 12E-2.

TABLE A-9 TOLEDO EDISON POWER:
FORECAST OF ELECTRIC ENERGY DEMAND
(1000 MWH)

Month	Actual Demand* (1978-1979)	Utility Forecast (1979-1980)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1979-1980)	Forecast % Change (ODOE Forecast vs. Actual)
November	679	699	2.9	693	2.1
December	730	738	1.1	728	-0.3
January	800	796	-0.5	799	0.1
February	730	772	5.8	716	-1.9
March	718	744	3.6	717	-0.1
April	641	700	9.2	648	1.1
May	655	678	3.5	665	1.5
June	653	699	7.0	688	5.4
July	671	725	8.0	729	8.6
August	675	737	9.2	751	11.3
September	608	717	17.9	696	14.5
October	667	718	7.6	717	7.5

*Source of demand figures is FPC Form 12E-2.

Table A-10 Forecast of Ohio Electricity Demand - Residential Sector
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1979-1980)	Upper 95% Confidence Limit	Actual (1978-1979)	Forecast Percentage Change
Nov.	1,769.4	2,078.8	2,388.2	2,040.0	.9
Dec.	2,230.7	2,549.2	2,867.8	2,485.6	2.6
Jan.	2,765.6	3,098.6	3,431.6	3,090.6	.3
Feb.	2,764.2	3,111.0	3,457.9	3,144.8	-1.1
Mar.	2,276.8	2,637.0	2,997.2	2,707.6	-2.6
Apr.	1,820.7	2,201.2	2,581.6	2,260.4	-2.6
May	1,543.3	1,945.1	2,346.0	1,951.2	-.3
Jun.	1,574.5	1,987.4	2,401.3	1,999.6	-.6
Jul.	1,815.6	2,249.1	2,684.6	2,097.5	7.2
Aug.	1,945.1	2,362.3	2,852.9	2,315.2	2.0
Sep.	1,834.0	2,265.8	2,697.4	2,217.1	2.2
Oct.	1,482.1	1,974.7	2,467.4	*	

Notes:

1. The forecast is based on the monthly comparison summary statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).
2. (*) indicates data not available at the time of preparation.
3. Forecast by ODOE.

Table A-11 Forecast of Ohio Electricity Demand - Commercial Sector
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1979-1980)	Upper 95% Confidence Limit	Actual (1978-1979)	For Perc Ch
Nov.	1,350.5	1,474.4	1,597.7	1,491.6	-
Dec.	1,475.9	1,609.9	1,744.1	1,606.7	
Jan.	1,592.1	1,735.9	1,879.7	1,778.9	-
Feb.	1,671.6	1,822.9	1,987.7	1,823.9	-
Mar.	1,419.5	1,588.4	1,757.5	1,651.7	-
Apr.	1,355.2	1,530.0	1,705.7	1,541.8	-
May	1,425.2	1,610.2	1,795.1	1,518.9	
Jun.	1,528.7	1,720.8	1,913.0	1,640.6	
Jul.	1,561.2	1,766.9	1,972.6	1,697.7	
Aug.	1,657.5	1,867.3	2,076.7	1,777.7	
Sep.	1,527.0	1,748.5	1,969.0	1,712.3	
Oct.	1,523.6	1,743.5	1,963.3	*	

Notes:

1. The forecast is based on the monthly comparative summary statistics of th Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).
2. (*) indicates data not available at the time of preparation.
3. Forecast by ODOE.

Table A-12 Forecast of Ohio Electricity Demand - Industrial Sector
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1979-1980)	Upper 95% Confidence Limit	Actual (1978-1979)	Forecast Percentage Change
Nov.	3,774.8	4,243.5	4,712.8	4,221.8	0.5
Dec.	3,612.3	4,138.9	4,665.7	4,164.9	-0.6
Jan.	3,360.5	4,207.9	4,785.4	4,314.4	-2.5
Feb.	3,509.5	4,133.1	4,756.4	4,287.3	-3.6
Mar.	3,611.5	4,277.4	4,943.2	4,324.4	-1.1
Apr.	3,537.5	4,242.9	4,848.4	4,249.8	-0.2
May	3,600.6	4,357.3	5,114.3	4,340.7	.4
Jun.	3,548.7	4,353.1	5,159.7	4,305.0	1.1
Jul.	3,353.7	4,204.5	4,480.0	4,194.1	.2
Aug.	3,462.4	4,356.6	4,599.3	4,261.0	2.2
Sep.	3,392.2	4,328.8	5,263.2	4,070.8	6.3
Oct.	3,340.6	4,403.1	5,466.9	*	

Notes:

1. The forecast is based on the monthly comparitives summary statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).
2. (*) indicates data not available at the time of preparation.
3. Forecast by ODOE.

Table A-13 Forecast of Total Ohio Electricity Demand
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1979-1980)	Upper 95% Confidence Limit	Actual (1978-1979)	Forecast Percentage Change
Nov.	7,400.4	8,357.6	9,314.8	8,201.1	1.9
Dec.	7,843.0	8,866.4	9,889.5	8,743.7	1.4
Jan.	8,548.2	9,633.5	10,718.8	9,709.8	-0.8
Feb.	8,387.5	9,531.7	10,675.2	9,765.5	-2.4
Mar.	7,864.5	9,064.3	10,263.8	9,176.4	-1.2
Apr.	7,238.3	8,492.1	9,744.8	8,503.4	-0.1
May	7,062.8	8,439.5	9,816.3	8,255.9	2.2
Jun.	7,207.2	8,696.3	10,187.2	8,389.4	3.7
Jul.	7,373.7	8,968.9	10,564.3	8,434.0	6.3
Aug.	7,507.2	9,200.8	10,894.6	8,813.5	4.4
Sep.	7,399.6	9,186.6	10,973.5	8,444.3	8.8
Oct.	6,929.4	8,804.6	10,601.4	*	

Notes:

1. The forecast is based on the monthly comparative summery statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).
2. (*) indicates data not available at the time of preparation.
3. Forecast by ODOE.

APPENDIX B

FORECAST OF NATURAL GAS DEMAND

BY UTILITY

Table B-1 Comparison Between Two Years of Actual Gas Supply for Cincinnati Gas and Electric Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	2890	0	141	0	0	0	0	8	0	136	293	0	0	3468
9/77	2893	0	130	0	0	0	0	0	0	0	253	0	0	3276
	-0.1%	0.0%	8.5%	0.0%	0.0%	0.0%	0.0%	999.9%	0.0%	999.9%	15.8%	0.0%	0.0%	5.9%
10/78	5803	0	107	0	0	0	0	18	0	146	391	0	0	6465
10/77	6305	0	80	0	0	0	0	48	0	0	337	5	33	6808
	-8.0%	0.0%	33.8%	0.0%	0.0%	0.0%	0.0%	-62.5%	0.0%	999.9%	16.0%	-100.0%	-100.0%	-5.0%
11/78	7767	0	42	0	0	0	0	25	0	139	644	0	0	8617
11/77	6759	0	110	0	0	0	0	19	0	5	555	0	47	7495
	14.9%	0.0%	-61.8%	0.0%	0.0%	0.0%	0.0%	31.6%	0.0%	2680.0%	16.0%	0.0%	-100.0%	15.0%
12/78	11256	0	42	0	0	0	0	39	0	162	857	22	0	12378
12/77	12589	0	34	0	0	0	0	34	0	29	739	0	81	13506
	-10.6%	0.0%	23.5%	0.0%	0.0%	0.0%	0.0%	14.7%	0.0%	458.6%	16.0%	999.9%	-100.0%	-8.4%
1/79	15159	0	23	0	0	0	0	55	0	188	907	69	0	16401
1/78	15513	0	25	0	0	0	0	50	0	30	782	36	24	16460
	-2.3%	0.0%	-8.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	526.7%	16.0%	91.7%	-100.0%	-0.4%
2/79	13115	0	14	0	0	0	0	48	0	159	867	56	0	14259
2/78	13007	0	0	0	0	0	0	62	0	35	748	0	0	13852
	0.8%	0.0%	999.9%	0.0%	0.0%	0.0%	0.0%	-22.6%	0.0%	354.3%	15.9%	999.9%	0.0%	2.9%
3/79	8517	0	60	0	0	0	0	28	0	146	778	27	0	9556
3/78	9129	0	180	0	0	0	0	38	0	58	671	0	111	10187
	-6.7%	0.0%	-66.7%	0.0%	0.0%	0.0%	0.0%	-26.3%	0.0%	151.7%	15.9%	999.9%	-100.0%	-6.2%
4/79	6453	0	121	0	0	0	0	21	0	180	521	0	0	7296
4/78	5936	0	96	0	0	0	0	16	0	62	521	0	0	6631
	8.7%	0.0%	26.0%	0.0%	0.0%	0.0%	0.0%	31.3%	0.0%	190.3%	0.0%	0.0%	0.0%	10.0%
5/79	4072	0	211	0	0	0	0	11	0	193	387	0	0	4874
5/78	4208	0	81	0	0	0	0	13	0	64	387	0	0	4753
	-3.2%	0.0%	160.5%	0.0%	0.0%	0.0%	0.0%	-15.4%	0.0%	201.6%	0.0%	0.0%	0.0%	2.5%
6/79	3035	0	200	0	0	0	0	8	0	189	306	0	0	3738
6/78	2476	0	113	0	0	0	0	7	0	73	306	0	0	2975
	22.6%	0.0%	77.0%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	158.9%	0.0%	0.0%	0.0%	25.6%
7/79	2799	0	245	0	0	0	0	8	0	195	294	0	0	3541
7/78	2319	0	179	0	0	0	0	6	0	44	294	0	0	2842
	20.7%	0.0%	36.9%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	343.2%	0.0%	0.0%	0.0%	24.6%
8/79	2959	0	0	0	0	0	0	8	0	212	294	0	0	3473
8/78	3044	0	120	0	0	0	0	7	0	98	294	0	72	3635
	-2.8%	0.0%	-100.0%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	116.3%	0.0%	0.0%	-100.0%	-4.5%
SUMMER TOTAL														
	28011	0	1025	0	0	0	0	82	0	1251	2486	0	0	32855
	27181	0	799	0	0	0	0	97	0	341	2392	5	105	30920
	3.1%	0.0%	28.3%	0.0%	0.0%	0.0%	0.0%	-15.5%	0.0%	266.9%	3.9%	-100.0%	-100.0%	6.3%
WINTER TOTAL														
	55814	0	181	0	0	0	0	195	0	794	4053	174	0	61211
	56997	0	349	0	0	0	0	203	0	157	3495	36	263	61500
	-2.1%	0.0%	-48.1%	0.0%	0.0%	0.0%	0.0%	-3.9%	0.0%	405.7%	16.0%	383.3%	-100.0%	-0.5%
YEAR TOTAL														
	83825	0	1206	0	0	0	0	277	0	2045	6539	174	0	94066
	84178	0	1148	0	0	0	0	300	0	498	5887	41	368	92420
	-0.4%	0.0%	5.1%	0.0%	0.0%	0.0%	0.0%	-7.7%	0.0%	310.6%	11.1%	324.4%	-100.0%	1.8%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-2 Comparison Between Two Years of Actual Gas Supply for Columbia Gas of Ohio (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. MISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	14212	0	0	0	0	0	0	0	0	501	1268	0	-210	15771
9/77	13443	0	0	0	0	0	0	0	0	16	1093	0	80	14632
	5.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3031.2%	16.0%	0.0%	-362.5%	7.8%
10/78	22956	0	0	0	0	0	0	0	0	599	1755	0	-123	25187
10/77	22002	0	0	0	0	0	0	0	0	10	1514	0	-174	23352
	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5890.0%	15.9%	0.0%	29.3%	7.9%
11/78	28386	0	0	0	0	0	0	0	0	766	2449	0	32	31633
11/77	28210	0	0	0	0	0	0	0	0	75	2111	0	99	30495
	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	921.3%	16.0%	0.0%	-67.7%	3.7%
12/78	40203	0	0	0	0	0	0	0	0	223	3158	0	298	43882
12/77	42947	0	0	0	0	0	0	0	0	59	2723	58	98	45885
	-6.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	278.0%	16.0%	-100.0%	204.1%	-4.4%
1/79	53298	0	0	0	0	0	0	0	0	399	3328	0	-6	57019
1/78	49095	0	0	0	0	0	0	0	0	99	2869	1725	597	54385
	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	303.0%	16.0%	-100.0%	-101.0%	4.8%
2/79	49007	0	0	0	0	0	0	0	0	534	3033	0	-60	52514
2/78	45383	0	0	0	0	0	0	0	0	101	2615	0	1082	49181
	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	428.7%	16.0%	0.0%	-105.5%	6.8%
3/79	33117	0	0	0	0	0	0	0	0	436	2860	0	203	36616
3/78	35643	0	0	0	0	0	0	0	0	61	2465	900	1499	40568
	-7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	614.8%	16.0%	-100.0%	-86.5%	-9.7%
4/79	27367	0	0	0	0	0	0	0	0	578	2102	0	-22	30025
4/78	24156	0	0	0	0	0	0	0	0	444	2102	0	-62	26640
	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.2%	0.0%	0.0%	64.5%	12.7%
5/79	18818	0	0	0	0	0	0	0	0	588	1595	0	-149	20852
5/78	18309	0	0	0	0	0	0	0	0	259	1595	0	70	20233
	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	127.0%	0.0%	0.0%	-312.9%	3.1%
6/79	13792	0	0	0	0	0	0	0	0	558	1289	0	-217	15422
6/78	12670	0	0	0	0	0	0	0	0	241	1289	0	-112	14088
	8.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	131.5%	0.0%	0.0%	-93.8%	9.5%
7/79	12363	0	0	0	0	0	0	0	0	480	1158	0	-300	13701
7/78	12004	0	0	0	0	0	0	0	0	436	1158	0	-9	13589
	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.1%	0.0%	0.0%	-3233.3%	0.8%
8/79	13418	0	0	0	0	0	0	0	0	513	1174	0	152	15257
8/78	15446	0	0	0	0	0	0	0	0	444	1174	0	115	17179
	-13.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.5%	0.0%	0.0%	32.2%	-11.2%
SUMMER TOTAL														
	122926	0	0	0	0	0	0	0	0	3817	18341	0	-869	136215
	118030	0	0	0	0	0	0	0	0	1850	9925	0	-92	129713
	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	106.3%	4.2%	0.0%	-844.6%	5.0%
WINTER TOTAL														
	204011	0	0	0	0	0	0	0	0	2358	14828	0	467	221664
	201278	0	0	0	0	0	0	0	0	395	12783	2683	3375	220514
	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	497.0%	16.0%	-100.0%	-86.2%	0.5%
YEAR TOTAL														
	326937	0	0	0	0	0	0	0	0	6175	25169	0	-402	357879
	319308	0	0	0	0	0	0	0	0	2245	22708	2683	3283	350227
	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	175.1%	10.8%	-100.0%	-112.2%	2.2%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-3 Comparison Between Two Years of Actual Gas Supply for Dayton Power and Light Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLIDATED GAS	LAWRENCEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	2373	0	0	0	3	0	0	0	0	0	186	0	0	2562
9/77	2040	0	0	0	3	0	0	0	0	0	160	0	0	2203
	16.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.3%	0.0%	0.0%	16.3%
10/78	3525	0	0	0	9	0	0	0	0	0	253	0	0	3787
10/77	3521	0	0	0	8	0	0	0	0	0	218	0	0	3747
	0.1%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	16.1%	0.0%	0.0%	1.1%
11/78	4312	0	0	0	13	0	0	0	0	0	443	0	431	5199
11/77	3358	0	0	0	13	0	0	0	0	0	382	800	0	4553
	28.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.0%	-100.0%	999.9%	14.2%
12/78	7105	0	0	0	19	0	0	0	0	0	249	0	627	8000
12/77	6597	0	0	0	22	0	0	0	0	0	541	1292	0	8452
	7.7%	0.0%	0.0%	0.0%	-13.6%	0.0%	0.0%	0.0%	0.0%	0.0%	-54.0%	-100.0%	999.9%	-5.3%
1/79	10026	0	0	0	26	0	0	0	0	0	706	0	0	10758
1/78	9747	0	0	0	26	0	0	0	0	0	609	513	0	10895
	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.9%	-100.0%	0.0%	-1.3%
2/79	11475	0	0	0	23	0	0	0	0	0	754	0	0	12252
2/78	11382	0	0	0	24	0	0	0	0	0	650	16	0	12072
	0.8%	0.0%	0.0%	0.0%	-4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	16.0%	-100.0%	0.0%	1.5%
3/79	7040	0	0	0	15	0	0	0	0	0	616	0	0	7671
3/78	8624	0	0	0	18	0	0	0	0	0	532	0	0	9174
	-18.4%	0.0%	0.0%	0.0%	-16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	15.8%	0.0%	0.0%	-16.4%
4/79	5502	0	0	0	11	0	0	0	0	0	475	0	0	5988
4/78	4764	0	0	0	9	0	0	0	0	0	475	0	0	5248
	15.5%	0.0%	0.0%	0.0%	22.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.1%
5/79	3091	0	0	0	6	0	0	0	0	0	281	0	0	3378
5/78	4042	0	0	0	5	0	0	0	0	0	281	0	0	4328
	-23.5%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-22.0%
6/79	2789	0	0	0	3	0	0	0	0	0	191	0	0	2983
6/78	2242	0	0	0	4	0	0	0	0	0	191	1	0	2438
	24.4%	0.0%	0.0%	0.0%	-25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	22.4%
7/79	2164	0	0	0	3	0	0	0	0	0	147	0	0	2314
7/78	1887	0	0	0	3	0	0	0	0	0	146	0	0	2036
	14.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	13.7%
8/79	2185	0	0	0	3	0	0	0	0	0	155	0	0	2343
8/78	2117	0	0	0	3	0	0	0	0	0	155	0	0	2275
	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
SUMMER TOTAL														
	21629	0	0	0	38	0	0	0	0	0	1688	0	0	23355
	20613	0	0	0	35	0	0	0	0	0	1626	1	0	22275
	4.9%	0.0%	0.0%	0.0%	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%	-100.0%	0.0%	4.8%
WINTER TOTAL														
	39958	0	0	0	96	0	0	0	0	0	2768	0	1058	43880
	39708	0	0	0	103	0	0	0	0	0	2714	2621	0	45146
	0.6%	0.0%	0.0%	0.0%	-6.8%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	-100.0%	999.9%	-2.8%
YEAR TOTAL														
	61587	0	0	0	134	0	0	0	0	0	4456	0	1058	67235
	60321	0	0	0	138	0	0	0	0	0	4340	2622	0	67421
	2.1%	0.0%	0.0%	0.0%	-2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%	-100.0%	999.9%	-0.3%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-4 Comparison Between Two Years of Actual Gas Supply for East Ohio Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLIDATED GAS	LAWRENCEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS.	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	0	14128	0	0	5252	0	0	0	0	4701	0	115	0	24196
9/77	0	14874	0	0	4552	0	0	0	0	4079	0	132	0	23637
	0.0%	-5.0%	0.0%	0.0%	15.4%	0.0%	0.0%	0.0%	0.0%	15.2%	0.0%	-12.9%	0.0%	2.4%
10/78	0	23285	0	0	5454	0	0	0	0	4144	0	120	0	32923
10/77	0	23348	0	0	4718	0	0	0	0	4072	0	146	0	32284
	0.0%	-0.6%	0.0%	0.0%	15.6%	0.0%	0.0%	0.0%	0.0%	1.8%	0.0%	-17.8%	0.0%	2.0%
11/78	0	19400	0	0	4998	0	0	0	0	4600	0	6029	0	35027
11/77	0	17217	0	0	4447	0	0	0	0	3726	0	9102	0	34492
	0.0%	12.7%	0.0%	0.0%	12.4%	0.0%	0.0%	0.0%	0.0%	23.5%	0.0%	-33.8%	0.0%	1.6%
12/78	0	19100	0	0	5237	0	0	0	0	4718	0	19557	0	48612
12/77	0	26685	0	0	4766	0	0	0	0	4014	0	16083	0	51548
	0.0%	-28.4%	0.0%	0.0%	9.9%	0.0%	0.0%	0.0%	0.0%	17.5%	0.0%	21.6%	0.0%	-5.7%
1/79	0	36496	0	0	5047	0	0	0	0	4220	0	15664	0	61427
1/78	0	36248	0	0	4617	0	0	0	0	4017	0	15977	0	60859
	0.0%	0.7%	0.0%	0.0%	9.3%	0.0%	0.0%	0.0%	0.0%	5.1%	0.0%	-2.0%	0.0%	0.9%
2/79	0	37101	0	0	4742	0	0	0	0	4358	0	12435	0	58636
2/78	0	36336	0	0	4295	0	0	0	0	3689	0	10411	0	54731
	0.0%	2.1%	0.0%	0.0%	10.4%	0.0%	0.0%	0.0%	0.0%	18.1%	0.0%	19.4%	0.0%	7.1%
3/79	0	22381	0	0	5399	0	0	0	0	3703	0	7926	0	39409
3/78	0	31097	0	0	4607	0	0	0	0	3169	0	6794	0	45667
	0.0%	-28.0%	0.0%	0.0%	17.2%	0.0%	0.0%	0.0%	0.0%	16.9%	0.0%	16.7%	0.0%	-13.7%
4/79	0	28498	0	0	5358	0	0	0	0	4280	0	994	0	39138
4/78	0	28148	0	0	4946	0	0	0	0	3991	0	386	0	37471
	0.0%	1.2%	0.0%	0.0%	8.3%	0.0%	0.0%	0.0%	0.0%	7.4%	0.0%	157.5%	0.0%	4.4%
5/79	0	21405	0	0	5591	0	0	0	0	4250	0	255	0	31501
5/78	0	22103	0	0	5061	0	0	0	0	3676	0	186	0	31026
	0.0%	-3.2%	0.0%	0.0%	10.5%	0.0%	0.0%	0.0%	0.0%	15.6%	0.0%	37.1%	0.0%	1.5%
6/79	0	16314	0	0	5384	0	0	0	0	4743	0	148	0	26589
6/78	0	16261	0	0	5106	0	0	0	0	4428	0	129	0	25924
	0.0%	0.3%	0.0%	0.0%	5.4%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	14.7%	0.0%	2.6%
7/79	0	14833	0	0	5519	0	0	0	0	4287	0	150	0	24789
7/78	0	13669	0	0	4938	0	0	0	0	4238	0	125	0	22970
	0.0%	8.5%	0.0%	0.0%	11.8%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	20.0%	0.0%	7.9%
8/79	0	14588	0	0	5565	0	0	0	0	4514	0	143	0	24810
8/78	0	13992	0	0	5180	0	0	0	0	4220	0	139	0	23531
	0.0%	4.3%	0.0%	0.0%	7.4%	0.0%	0.0%	0.0%	0.0%	7.0%	0.0%	2.9%	0.0%	5.4%
SUMMER TOTAL														
	0	132971	0	0	38123	0	0	0	0	30927	0	1925	0	203946
	0	132395	0	0	34501	0	0	0	0	28704	0	1243	0	196843
	0.0%	0.4%	0.0%	0.0%	10.5%	0.0%	0.0%	0.0%	0.0%	7.7%	0.0%	54.9%	0.0%	3.6%
WINTER TOTAL														
	0	134478	0	0	25423	0	0	0	0	21599	0	61611	0	243111
	0	147583	0	0	22732	0	0	0	0	18615	0	58367	0	247297
	0.0%	-8.9%	0.0%	0.0%	11.8%	0.0%	0.0%	0.0%	0.0%	16.0%	0.0%	5.6%	0.0%	-1.7%
YEAR TOTAL														
	0	267449	0	0	63546	0	0	0	0	52526	0	63536	0	447057
	0	279978	0	0	57233	0	0	0	0	47319	0	59610	0	444140
	0.0%	-4.5%	0.0%	0.0%	11.0%	0.0%	0.0%	0.0%	0.0%	11.0%	0.0%	6.6%	0.0%	0.7%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-5 Comparison Between Two Years of Actual Gas Supply for National Gas and Oil (MMCF)

MO/YR	COLUMBIA GAS	CONSOLIDATED GAS	LAWRENCEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	0	0	0	0	0	139	426	0	0	489	0	1	-19	1036
9/77	0	0	0	0	0	110	449	0	0	358	0	0	-32	885
	0.0%	0.0%	0.0%	0.0%	0.0%	26.4%	-5.1%	0.0%	0.0%	36.6%	0.0%	999.9%	40.6%	17.1%
10/78	0	0	0	0	0	152	561	0	0	513	0	24	-150	1100
10/77	0	0	0	0	0	151	499	0	0	391	0	7	-75	973
	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	12.4%	0.0%	0.0%	31.2%	0.0%	242.9%	-100.0%	13.1%
11/78	0	0	0	0	0	123	550	0	0	525	0	48	-62	1184
11/77	0	0	0	0	0	135	546	0	0	392	0	50	-191	932
	0.0%	0.0%	0.0%	0.0%	0.0%	-8.9%	0.7%	0.0%	0.0%	33.9%	0.0%	-4.0%	67.5%	27.0%
12/78	0	0	0	0	0	136	521	0	0	436	0	78	-100	1071
12/77	0	0	0	0	0	150	492	0	0	360	0	264	-59	1207
	0.0%	0.0%	0.0%	0.0%	0.0%	-9.3%	5.9%	0.0%	0.0%	21.1%	0.0%	-70.5%	-69.5%	-11.3%
1/79	0	0	0	0	0	139	605	0	0	404	0	315	-113	1350
1/78	0	0	0	0	0	146	384	0	0	415	0	561	-51	1455
	0.0%	0.0%	0.0%	0.0%	0.0%	-4.8%	57.6%	0.0%	0.0%	-2.7%	0.0%	-43.9%	-121.6%	-7.2%
2/79	0	0	0	0	0	121	465	0	0	368	0	385	6	1345
2/78	0	0	0	0	0	143	311	0	0	365	0	491	37	1347
	0.0%	0.0%	0.0%	0.0%	0.0%	-15.4%	49.5%	0.0%	0.0%	0.8%	0.0%	-21.6%	-83.8%	-0.1%
3/79	0	0	0	0	0	128	525	0	0	380	0	111	114	1258
3/78	0	0	0	0	0	158	384	0	0	346	0	224	101	1213
	0.0%	0.0%	0.0%	0.0%	0.0%	-19.0%	36.7%	0.0%	0.0%	9.8%	0.0%	-50.4%	12.9%	3.7%
4/79	0	0	0	0	0	125	586	0	0	424	0	51	-49	1137
4/78	133	0	0	0	0	0	518	0	0	529	0	103	27	1310
	-100.0%	0.0%	0.0%	0.0%	0.0%	999.9%	13.1%	0.0%	0.0%	-19.8%	0.0%	-50.5%	-281.5%	-13.2%
5/79	0	0	0	0	0	123	609	0	0	379	0	16	-62	1065
5/78	143	0	0	0	0	0	576	0	0	511	0	7	26	1263
	-100.0%	0.0%	0.0%	0.0%	0.0%	999.9%	5.7%	0.0%	0.0%	-25.8%	0.0%	128.6%	-338.5%	-15.7%
6/79	0	0	0	0	0	116	542	0	0	387	0	5	-20	1030
6/78	142	0	0	0	0	0	567	0	0	443	0	3	-58	1097
	-100.0%	0.0%	0.0%	0.0%	0.0%	999.9%	-4.4%	0.0%	0.0%	-12.6%	0.0%	66.7%	65.5%	-6.1%
7/79	0	0	0	0	0	112	572	0	0	417	0	9	-21	1089
7/78	140	0	0	0	0	0	538	0	0	413	0	4	-2	1093
	-100.0%	0.0%	0.0%	0.0%	0.0%	999.9%	6.3%	0.0%	0.0%	1.0%	0.0%	125.0%	-950.0%	-0.4%
8/79	0	0	0	0	0	125	654	0	0	473	0	4	-16	1240
8/78	138	0	0	0	0	0	510	0	0	467	0	1	-29	1087
	-100.0%	0.0%	0.0%	0.0%	0.0%	999.9%	28.2%	0.0%	0.0%	1.3%	0.0%	300.0%	44.8%	14.1%
SUMMER TOTAL														
	0	0	0	0	0	892	3950	0	0	3082	0	110	-337	7697
	696	0	0	0	0	261	3657	0	0	3112	0	125	-143	7708
	-100.0%	0.0%	0.0%	0.0%	0.0%	241.8%	8.0%	0.0%	0.0%	-1.0%	0.0%	-12.0%	-135.7%	-0.1%
WINTER TOTAL														
	0	0	0	0	0	647	2666	0	0	2113	0	937	-155	6208
	0	0	0	0	0	732	2117	0	0	1878	0	1590	-163	6154
	0.0%	0.0%	0.0%	0.0%	0.0%	-11.6%	25.9%	0.0%	0.0%	12.5%	0.0%	-41.1%	4.9%	0.9%
YEAR TOTAL														
	0	0	0	0	0	1539	6616	0	0	5195	0	1047	-492	13905
	696	0	0	0	0	993	5774	0	0	4990	0	1715	-306	13862
	-100.0%	0.0%	0.0%	0.0%	0.0%	55.0%	14.6%	0.0%	0.0%	4.1%	0.0%	-39.0%	-60.8%	0.3%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-6 Comparison Between Two Years of Actual Gas Supply for Ohio Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	ENERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	0	0	0	0	243	0	0	0	0	5	0	0	4	252
9/77	0	0	0	0	198	0	0	0	50	5	0	0	21	275
	0.0%	0.0%	0.0%	0.0%	22.7%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	0.0%	-81.0%	-8.4%
10/78	0	0	0	0	497	0	0	0	39	6	0	0	1	543
10/77	0	0	0	0	377	0	0	0	136	1	0	0	7	524
	0.0%	0.0%	0.0%	0.0%	31.8%	0.0%	0.0%	0.0%	-71.3%	100.0%	0.0%	0.0%	-85.7%	3.6%
11/78	0	0	0	0	661	0	0	0	0	36	0	0	1	698
11/77	0	0	0	0	626	0	0	0	94	4	0	0	4	732
	0.0%	0.0%	0.0%	0.0%	5.6%	0.0%	0.0%	0.0%	-100.0%	500.0%	0.0%	0.0%	-75.0%	-4.6%
12/78	0	0	0	0	905	0	0	0	0	37	0	0	37	979
12/77	0	0	0	0	818	0	0	0	103	4	0	90	44	1060
	0.0%	0.0%	0.0%	0.0%	10.6%	0.0%	0.0%	0.0%	-100.0%	[illegible]%	0.0%	-100.0%	-15.9%	-7.6%
1/79	0	0	0	0	1096	0	0	0	0	34	0	68	32	1230
1/78	0	0	0	0	952	0	0	0	129	2	0	90	41	1216
	0.0%	0.0%	0.0%	0.0%	15.1%	0.0%	0.0%	0.0%	-100.0%	1600.0%	0.0%	-24.4%	-22.0%	1.2%
2/79	0	0	0	0	942	0	0	0	0	42	0	109	37	1130
2/78	0	0	0	0	777	0	0	0	202	0	0	94	35	1110
	0.0%	0.0%	0.0%	0.0%	21.2%	0.0%	0.0%	0.0%	-100.0%	999.9%	0.0%	16.0%	5.7%	1.8%
3/79	0	0	0	0	915	0	0	0	0	22	0	0	31	968
3/78	0	0	0	0	742	0	0	0	247	5	0	0	41	1036
	0.0%	0.0%	0.0%	0.0%	23.3%	0.0%	0.0%	0.0%	-100.0%	340.0%	0.0%	0.0%	-24.4%	-6.6%
4/79	0	0	0	0	570	0	0	0	0	21	0	2	20	613
4/78	0	0	0	0	504	0	0	0	12	6	0	17	17	557
	0.0%	0.0%	0.0%	0.0%	13.1%	0.0%	0.0%	0.0%	-100.0%	250.0%	0.0%	-88.2%	17.6%	10.1%
5/79	0	0	0	0	344	0	0	0	0	40	0	0	3	387
5/78	0	0	0	0	312	0	0	0	68	5	0	0	16	403
	0.0%	0.0%	0.0%	0.0%	10.3%	0.0%	0.0%	0.0%	-100.0%	700.0%	0.0%	0.0%	-81.3%	-4.0%
6/79	0	0	0	0	221	0	0	0	0	46	0	0	5	292
6/78	0	0	0	0	250	0	0	0	66	5	0	0	1	322
	0.0%	0.0%	0.0%	0.0%	-11.6%	0.0%	0.0%	0.0%	-100.0%	1220.0%	0.0%	0.0%	400.0%	-9.3%
7/79	0	0	0	0	196	0	0	0	0	69	0	0	5	270
7/78	0	0	0	0	181	0	0	0	35	5	0	0	22	242
	0.0%	0.0%	0.0%	0.0%	8.3%	0.0%	0.0%	0.0%	-100.0%	1280.0%	0.0%	0.0%	-77.3%	11.6%
8/79	0	0	0	0	185	0	0	0	0	84	0	0	5	274
8/78	0	0	0	0	223	0	0	0	43	5	0	0	22	294
	0.0%	0.0%	0.0%	0.0%	-17.0%	0.0%	0.0%	0.0%	-100.0%	1580.0%	0.0%	0.0%	-77.3%	-6.8%
SUMMER TOTAL														
	0	0	0	0	2256	0	0	0	39	291	0	2	43	2631
	0	0	0	0	2045	0	0	0	410	34	0	17	106	2617
	0.0%	0.0%	0.0%	0.0%	10.3%	0.0%	0.0%	0.0%	-90.5%	755.9%	0.0%	-88.2%	-59.4%	0.5%
WINTER TOTAL														
	0	0	0	0	4519	0	0	0	0	171	0	177	138	5005
	0	0	0	0	3915	0	0	0	775	17	0	274	165	5154
	0.0%	0.0%	0.0%	0.0%	15.4%	0.0%	0.0%	0.0%	-100.0%	905.9%	0.0%	-35.4%	-16.4%	-2.9%
YEAR TOTAL														
	0	0	0	0	6775	0	0	0	39	462	0	179	181	7636
	0	0	0	0	5960	0	0	0	1185	51	0	291	271	7771
	0.0%	0.0%	0.0%	0.0%	13.7%	0.0%	0.0%	0.0%	-96.7%	805.9%	0.0%	-38.5%	-33.2%	-1.7%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-7 Comparison Between Two Years of Actual Gas Supply for River Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLIDATED GAS	LAWRENCEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	0	61	0	0	0	0	0	0	0	104	0	0.	0	165
9/77	0	120	0	0	0	0	0	0	0	104	0	0	0	224
	0.0%	-49.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-26.3%
10/78	0	181	0	0	0	0	0	0	0	131	0	0	0	312
10/77	0	253	0	0	0	0	0	0	0	100	0	0	0	353
	0.0%	-28.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.0%	0.0%	0.0%	0.0%	-11.6%
11/78	0	307	0	0	0	0	0	0	0	145	0	0	0	452
11/77	0	347	0	0	0	0	0	0	0	116	0	0	0	463
	0.0%	-11.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	-2.4%
12/78	0	504	0	0	0	0	0	0	0	169	0	0	0	673
12/77	0	646	0	0	0	0	0	0	0	133	0	0	0	779
	0.0%	-22.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.1%	0.0%	0.0%	0.0%	-13.6%
1/79	0	768	0	0	0	0	0	0	0	120	0	0	0	888
1/78	0	868	0	0	0	0	0	0	0	110	0	0	0	978
	0.0%	-11.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%	0.0%	0.0%	-9.2%
2/79	0	697	0	0	0	0	0	0	0	111	0	0	0	808
2/78	0	816	0	0	0	0	0	0	0	72	0	0	0	888
	0.0%	-14.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	54.2%	0.0%	0.0%	0.0%	-9.0%
3/79	0	369	0	0	0	0	0	0	0	119	0	0	0	488
3/78	0	526	0	0	0	0	0	0	0	73	0	0	0	599
	0.0%	-29.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63.0%	0.0%	0.0%	0.0%	-18.5%
4/79	0	227	0	0	0	0	0	0	0	175	0	0	0	402
4/78	0	243	0	0	0	0	0	0	0	137	0	0	0	380
	0.0%	-6.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.7%	0.0%	0.0%	0.0%	5.8%
5/79	0	108	0	0	0	0	0	0	0	153	0	0	0	261
5/78	0	163	0	0	0	0	0	0	0	125	0	0	0	288
	0.0%	-33.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.4%	0.0%	0.0%	0.0%	-9.4%
6/79	0	57	0	0	0	0	0	0	0	172	0	0	0	229
6/78	0	118	0	0	0	0	0	0	0	120	0	0	0	238
	0.0%	-51.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.3%	0.0%	0.0%	0.0%	-3.8%
7/79	0	49	0	0	0	0	0	0	0	112	0	0	0	161
7/78	0	51	0	0	0	0	0	0	0	86	0	0	0	137
	0.0%	-3.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.2%	0.0%	0.0%	0.0%	17.5%
8/79	0	51	0	0	0	0	0	0	0	116	0	0	0	167
8/78	0	99	0	0	0	0	0	0	0	90	0	0	0	189
	0.0%	-48.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.9%	0.0%	0.0%	0.0%	-11.6%
SUMMER TOTAL														
	0	734	0	0	0	0	0	0	0	963	0	0	0	1697
	0	1047	0	0	0	0	0	0	0	762	0	0	0	1809
	0.0%	-29.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26.4%	0.0%	0.0%	0.0%	-6.2%
WINTER TOTAL														
	0	2645	0	0	0	0	0	0	0	664	0	0	0	3309
	0	3203	0	0	0	0	0	0	0	504	0	0	0	3707
	0.0%	-17.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.7%	0.0%	0.0%	0.0%	-10.7%
YEAR TOTAL														
	0	3379	0	0	0	0	0	0	0	1627	0	0	0	5006
	0	4250	0	0	0	0	0	0	0	1266	0	0	0	5516
	0.0%	-20.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.5%	0.0%	0.0%	0.0%	-9.2%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-8 Comparison Between Two Years of Actual Gas Supply for West Ohio Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
9/78	439	0	0	57	0	0	0	0	0	0	48	0	0	544
9/77	441	0	0	43	0	0	0	0	0	0	40	0	0	524
	-0.5%	0.0%	0.0%	32.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	3.8%
10/78	1113	0	0	112	0	0	0	0	0	0	72	0	0	1297
10/77	1103	0	0	96	0	0	0	0	0	0	63	0	0	1262
	0.9%	0.0%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	2.8%
11/78	1051	0	0	126	0	0	0	0	0	0	104	200	0	1481
11/77	1084	0	0	135	0	0	0	0	0	0	90	146	0	1455
	-3.0%	0.0%	0.0%	-6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.6%	37.0%	0.0%	1.8%
12/78	1711	0	0	171	0	0	0	0	0	0	139	0	0	2021
12/77	1967	0	0	176	0	0	0	0	0	0	119	54	0	2316
	-13.0%	0.0%	0.0%	-2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.8%	-100.0%	0.0%	-12.7%
1/79	2316	0	0	202	0	0	0	0	0	0	150	0	0	2668
1/78	2274	0	0	192	0	0	0	0	0	0	129	0	0	2595
	1.8%	0.0%	0.0%	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.3%	0.0%	0.0%	2.8%
2/79	2163	0	0	184	0	0	0	0	0	0	125	0	0	2472
2/78	2133	0	0	174	0	0	0	0	0	0	108	1	0	2416
	1.4%	0.0%	0.0%	5.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.7%	-100.0%	0.0%	2.3%
3/79	1383	0	0	143	0	0	0	0	0	0	112	0	0	1638
3/78	1671	0	0	164	0	0	0	0	0	0	101	0	0	1936
	-17.2%	0.0%	0.0%	-12.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.9%	0.0%	0.0%	-15.4%
4/79	1099	0	0	26	0	0	0	0	0	0	77	0	0	1202
4/78	947	0	0	100	0	0	0	0	0	0	77	0	0	1124
	16.1%	0.0%	0.0%	-74.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9%
5/79	580	0	0	10	0	0	0	0	0	0	57	0	0	647
5/78	655	0	0	63	0	0	0	0	0	0	58	0	0	776
	-11.5%	0.0%	0.0%	-84.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.7%	0.0%	0.0%	-16.6%
6/79	503	0	0	7	0	0	0	0	0	0	40	0	0	550
6/78	408	0	0	66	0	0	0	0	0	0	40	0	0	514
	23.3%	0.0%	0.0%	-89.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.0%
7/79	412	0	0	6	0	0	0	0	0	0	34	0	0	452
7/78	340	0	0	54	0	0	0	0	0	0	34	0	0	428
	21.2%	0.0%	0.0%	-88.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%
8/79	432	0	0	7	0	0	0	0	0	0	38	0	0	477
8/78	422	0	0	58	0	0	0	0	0	0	37	0	0	517
	2.4%	0.0%	0.0%	-87.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%	0.0%	0.0%	-7.7%
SUMMER TOTAL														
	4578	0	0	225	0	0	0	0	0	0	366	0	0	5169
	4316	0	0	480	0	0	0	0	0	0	349	0	0	5145
	6.1%	0.0%	0.0%	-53.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.9%	0.0%	0.0%	0.5%
WINTER TOTAL														
	8624	0	0	826	0	0	0	0	0	0	630	200	0	10280
	9129	0	0	841	0	0	0	0	0	0	547	201	0	10718
	-5.5%	0.0%	0.0%	-1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.2%	-0.5%	0.0%	-4.1%
YEAR TOTAL														
	13202	0	0	1051	0	0	0	0	0	0	996	200	0	15449
	13445	0	0	1321	0	0	0	0	0	0	896	201	0	15863
	-1.8%	0.0%	0.0%	-20.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.2%	-0.5%	0.0%	-2.6%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-9 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for Cincinnati Gas and Electric by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	44	828	686	2970	168	89	4741	1037
9/78	21	834	526	2155	-47	0	3468	0
	109.5%	-0.7%	30.4%	37.8%	457.4%	999.9%	36.7%	999.9%
10/79	271	1385	957	3166	1057	45	6610	1073
10/78	381	1464	898	2286	1817	0	6465	0
	-28.9%	-5.4%	6.6%	38.5%	-41.8%	999.9%	2.2%	999.9%
11/79	636	2835	1738	2999	1771	0	9343	-422
11/78	552	2892	1662	2801	1262	0	8617	0
	15.2%	-2.0%	4.6%	7.1%	40.3%	0.0%	8.4%	999.9%
12/79	970	5445	3161	3466	1174	0	13246	-216
12/78	891	4917	2773	3340	1348	0	12378	0
	8.9%	10.7%	14.0%	3.8%	-12.9%	0.0%	7.0%	999.9%
1/80	1051	6171	3552	3983	581	0	14287	-240
1/79	1348	7126	3896	3069	2310	0	16401	0
	-22.0%	-13.4%	-8.8%	29.8%	-74.8%	0.0%	-12.9%	999.9%
2/80	888	5804	3402	3873	-530	0	12549	-300
2/79	1216	7768	4247	3162	-918	0	14259	0
	-27.0%	-25.3%	-19.9%	22.5%	42.3%	0.0%	-12.0%	999.9%
3/80	722	5097	3001	3912	-808	0	11202	0
3/79	563	5703	3102	3049	-2298	0	9556	0
	28.2%	-10.6%	-3.3%	28.3%	64.8%	0.0%	17.2%	0.0%
4/80	341	3566	2152	3476	-1289	0	7905	0
4/79	425	3424	2043	2665	-836	0	7296	0
	-19.8%	4.1%	5.3%	30.4%	-54.2%	0.0%	8.3%	0.0%
5/80	138	1788	1161	3243	-472	0	5720	0
5/79	179	1984	1082	2493	-685	0	4874	0
	-22.9%	-9.9%	7.3%	30.1%	31.1%	0.0%	17.4%	0.0%
6/80	9	998	795	3037	-118	0	4712	0
6/79	15	1159	711	2283	-415	0	3738	0
	-40.0%	-13.9%	11.8%	33.0%	71.6%	0.0%	26.1%	0.0%
7/80	0	761	631	3051	401	0	4844	0
7/79	1	855	552	2140	-6	0	3541	0
	-100.0%	-11.0%	14.3%	42.6%	6783.3%	0.0%	36.8%	0.0%
8/80	0	760	631	3092	350	0	4833	0
8/79	14	760	494	2073	146	0	3473	0
	-100.0%	0.0%	27.7%	49.2%	139.7%	0.0%	39.2%	0.0%
SUMMER TOTAL								
	803	10086	7013	22035	97	134	39365	2110
	1036	10480	6306	16095	-26	0	32855	0
	-22.5%	-3.8%	11.2%	36.9%	473.1%	999.9%	19.8%	999.9%
WINTER TOTAL								
	4267	25352	14854	18233	2188	0	60627	-1178
	4570	28406	15680	15421	1704	0	61211	0
	-6.6%	-10.8%	-5.3%	18.2%	28.4%	0.0%	-1.0%	999.9%
YEAR TOTAL								
	5070	35438	21867	40268	2285	134	99992	932
	5606	38886	21986	31516	1678	0	94066	0
	-9.6%	-8.9%	-0.5%	27.8%	36.2%	999.9%	6.3%	999.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-10 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for Columbia Gas of Ohio by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	38	3188	1543	10876	1621	1185	18413	527
9/78	20	3123	1526	9265	121	1736	15771	0
	90.0%	2.1%	1.1%	17.4%	1239.7%	-31.7%	16.8%	999.9%
10/79	197	5887	2433	11114	4202	239	23875	-3264
10/78	281	6986	2670	10588	4328	615	25187	0
	-29.9%	-15.7%	-8.9%	5.0%	-2.9%	-61.1%	-5.2%	999.9%
11/79	570	12128	4843	13054	4375	0	34400	-2239
11/78	553	11560	4654	11499	3920	0	31633	0
	3.1%	4.9%	4.1%	13.5%	11.6%	0.0%	8.7%	999.9%
12/79	951	19002	7489	13500	5330	0	45321	-3049
12/78	890	18157	7408	12385	5932	0	43882	0
	6.9%	4.7%	1.1%	9.0%	-10.1%	0.0%	3.3%	999.9%
1/80	1173	23588	9764	14960	5287	0	53599	0
1/79	1281	26093	10490	14729	5707	0	57019	0
	-8.4%	-9.6%	-6.9%	1.6%	-7.4%	0.0%	-6.0%	0.0%
2/80	1102	22865	9513	14260	-5015	0	41623	0
2/79	1361	27715	11487	14411	-1099	0	52514	0
	-19.0%	-17.5%	-17.2%	-1.0%	-356.3%	0.0%	-20.7%	0.0%
3/80	918	19976	8227	13760	-2123	0	39840	0
3/79	926	20585	8297	13442	-5708	0	36616	0
	-0.9%	-3.0%	-0.8%	2.4%	62.8%	0.0%	8.8%	0.0%
4/80	560	13333	5533	13165	-3799	1532	29764	0
4/79	596	14342	5753	11804	-2917	1043	30025	0
	-6.0%	-7.0%	-3.8%	11.5%	-30.2%	46.9%	-0.9%	0.0%
5/80	288	7914	3359	12600	-2740	1577	22710	0
5/79	290	7749	3196	10971	-1932	868	20852	0
	-0.7%	2.1%	5.1%	14.8%	-41.8%	81.7%	8.9%	0.0%
6/80	85	4189	1943	11900	-1050	1526	18508	0
6/79	103	4615	1839	10342	-1374	0	15422	0
	-17.5%	-9.2%	5.7%	15.1%	23.6%	999.9%	20.0%	0.0%
7/80	0	3051	1597	11300	-546	1506	16908	0
7/79	36	3557	1486	9619	-361	0	14301	600
	-100.0%	-14.2%	7.5%	17.5%	-51.2%	999.9%	18.2%	-100.0%
8/80	0	3049	1597	11500	450	1045	17641	0
8/79	15	3123	1511	10331	292	0	15257	0
	-100.0%	-2.4%	5.7%	11.3%	54.1%	999.9%	15.6%	0.0%
SUMMER TOTAL	1168	40611	18005	82455	-1862	8610	147819	-2737
	1341	43495	17981	72920	-1843	4262	136815	600
	-12.9%	-6.6%	0.1%	13.1%	-1.0%	102.0%	8.0%	-556.2%
WINTER TOTAL	4714	97559	39836	69534	7854	0	214783	-6088
	5011	104110	42336	66466	8752	0	221664	0
	-5.9%	-6.3%	-5.9%	4.6%	-10.3%	0.0%	-3.1%	999.9%
YEAR TOTAL	5882	138170	57841	151989	5992	8610	362602	-8825
	6352	147605	60317	139386	6909	4262	358479	600
	-7.4%	-6.4%	-4.1%	9.0%	-13.3%	102.0%	1.2%	-1570.8%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-11 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for Dayton Power and Light by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	29	904	358	853	274	131	2520	259
9/73	30	688	252	1196	391	35	2562	0
	-3.3%	31.4%	42.1%	-28.7%	-29.9%	274.3%	-1.6%	999.9%
10/79	188	1692	512	1077	429	0	3710	347
10/78	0	1427	454	1343	563	0	3787	0
	999.9%	18.6%	12.8%	-19.8%	-23.8%	0.0%	-2.0%	999.9%
11/79	554	2969	819	1696	693	0	6177	-42
11/78	490	2532	780	1475	412	0	5199	0
	13.1%	17.3%	5.0%	15.0%	68.2%	0.0%	18.8%	999.9%
12/79	927	4579	1202	1895	838	0	8514	-997
12/78	799	4087	1078	1065	1160	0	7390	-610
	16.0%	12.0%	11.5%	77.9%	-27.8%	0.0%	15.2%	-63.4%
1/80	1134	5684	1454	2088	708	0	9934	-1023
1/79	1188	5990	1526	1905	1337	0	10758	0
	-4.5%	-5.1%	-4.7%	9.6%	-47.0%	0.0%	-7.7%	999.9%
2/80	1115	5668	1364	2054	686	0	9772	-4624
2/79	1351	6745	1742	2167	1598	0	12252	0
	-17.5%	-16.0%	-21.7%	-5.2%	-57.1%	0.0%	-20.2%	999.9%
3/80	827	4743	1184	1884	-48	0	7763	-3941
3/79	0	4921	1279	1653	-182	0	7671	0
	999.9%	-3.6%	-7.4%	14.0%	73.6%	0.0%	1.2%	999.9%
4/80	592	3437	806	1611	43	0	5897	-3042
4/79	538	3264	851	1443	430	0	5988	0
	10.0%	5.3%	-5.3%	11.6%	-90.0%	0.0%	-1.5%	999.9%
5/80	283	1899	489	1238	279	0	3905	-1385
5/79	176	1949	507	1186	-264	0	3378	0
	60.8%	-2.6%	-3.6%	4.4%	205.7%	0.0%	15.6%	999.9%
6/80	83	1012	297	1086	17	178	2590	0
6/79	99	1128	323	1132	263	137	2983	0
	-16.2%	-10.3%	-8.0%	-4.1%	-93.5%	29.9%	-13.2%	0.0%
7/80	9	681	261	948	169	0	2059	0
7/79	28	751	262	954	214	133	2314	0
	-67.9%	-9.3%	-0.4%	-0.6%	-21.0%	-100.0%	-11.0%	0.0%
8/80	0	640	743	1056	225	0	2164	0
8/79	15	672	238	941	355	137	2343	0
	-100.0%	-4.8%	212.2%	12.2%	-36.6%	-100.0%	-7.6%	0.0%
SUMMER TOTAL	1184	10265	3466	7869	1436	309	22845	-3821
	886	9879	2887	8195	1952	442	23355	0
	33.6%	3.9%	20.1%	-4.0%	-26.4%	-30.1%	-2.2%	999.9%
WINTER TOTAL	4557	23643	6023	9617	2877	0	42160	-10627
	3828	24275	6405	8265	4325	0	43270	-610
	19.0%	-2.6%	-6.0%	16.4%	-33.5%	0.0%	-2.6%	-1642.1%
YEAR TOTAL	5741	33908	9489	17486	4313	309	65005	-14448
	4714	34154	9292	16460	6277	442	66625	-610
	21.8%	-0.7%	2.1%	6.2%	-31.3%	-30.1%	-2.4%	-2268.5%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-12 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for East Ohio Gas by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	50	4653	1887	9512	2180	0	26532	0
9/78	10	3658	1711	9017	1377	8433	24196	0
	400.0%	27.2%	10.3%	5.5%	58.3%	-100.0%	9.7%	0.0%
10/79	205	7778	3058	10424	5166	0	33234	0
10/78	220	7095	2999	10826	5893	6110	32923	0
	-6.8%	9.5%	2.0%	-3.7%	-12.3%	-100.0%	0.9%	0.0%
11/79	517	13724	5285	11336	6184	0	36529	0
11/78	490	12030	4927	11101	6969	0	35027	0
	5.5%	14.1%	7.3%	2.1%	-11.3%	0.0%	4.3%	0.0%
12/79	946	22314	8517	12507	5141	0	48479	0
12/78	873	21378	8552	12372	6310	0	48612	0
	8.4%	4.4%	-0.4%	1.1%	-18.5%	0.0%	-0.3%	0.0%
1/80	1192	27118	10258	13398	908	1326	53008	0
1/79	1281	29799	11794	13815	5259	760	61427	0
	-6.9%	-9.0%	-13.0%	-3.0%	-82.7%	74.5%	-13.7%	0.0%
2/80	1137	25883	9791	12862	-773	1326	49089	0
2/79	1357	31085	12331	14535	-568	1253	58636	0
	-16.2%	-16.7%	-20.6%	-11.5%	-36.1%	5.8%	-16.3%	0.0%
3/80	1010	24407	9252	12192	-3221	0	42630	0
3/79	957	23147	9005	12737	-5480	0	39489	0
	5.5%	5.4%	2.7%	-4.3%	41.2%	0.0%	8.2%	0.0%
4/80	671	17160	6551	11790	-3967	7410	38944	0
4/79	616	16789	6540	11759	-3623	7673	39138	0
	8.9%	2.2%	0.2%	0.3%	-9.5%	-3.4%	-0.5%	0.0%
5/80	344	10746	4157	10585	-1976	10200	33712	0
5/79	363	10264	3702	10863	-3275	9947	31501	0
	-5.2%	4.7%	12.3%	-2.6%	39.7%	2.5%	7.0%	0.0%
6/80	121	6425	2545	10049	-1767	9700	26952	0
6/79	158	6225	2266	10237	-1543	9404	26589	0
	-23.4%	3.2%	12.3%	-1.8%	-14.5%	3.1%	1.4%	0.0%
7/80	10	4172	1695	8977	378	9400	24622	0
7/79	58	4182	1710	9191	301	9405	24789	0
	-82.8%	-0.2%	-0.9%	-2.3%	25.6%	-0.1%	-0.7%	0.0%
8/80	12	3071	1569	9111	866	8700	24117	0
8/79	13	4567	1831	9476	-205	9141	24810	0
	-7.7%	-15.2%	-14.3%	-3.9%	522.4%	-4.8%	-2.8%	0.0%
SUMMER TOTAL								
	1413	54797	21462	70448	880	45410	206113	0
	1438	52780	20759	71369	-1075	60113	203946	0
	-1.7%	3.8%	3.4%	-1.3%	181.9%	-24.5%	2.0%	0.0%
WINTER TOTAL								
	4802	113446	43103	62295	8239	2652	229735	0
	4958	117439	46609	64568	12490	2013	243111	0
	-3.1%	-3.4%	-7.5%	-3.5%	-34.0%	31.7%	-5.5%	0.0%
YEAR TOTAL								
	6215	168243	64565	132743	9119	48062	437848	0
	6396	170219	67368	135929	11415	62126	447057	0
	-2.8%	-1.2%	-4.2%	-2.3%	-20.1%	-22.6%	-2.1%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO

Table B-13 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for National Gas and Oil by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	108	40	22	680	20	200	962	-67
9/78	112	36	17	693	122	168	1036	0
	-3.6%	11.1%	29.4%	-1.9%	-83.6%	19.0%	-7.1%	999.9%
10/79	393	100	41	670	18	100	929	-70
10/78	519	71	27	785	28	189	1100	0
	-24.3%	40.8%	51.9%	-14.6%	-35.7%	-47.1%	-15.5%	999.9%
11/79	707	185	85	680	14	0	964	-48
11/78	700	146	66	752	101	119	1184	0
	1.0%	26.7%	28.8%	-9.6%	-86.1%	-100.0%	-18.6%	999.9%
12/79	1060	260	115	720	14	0	1109	-246
12/78	1054	221	96	732	10	12	1071	0
	0.6%	17.6%	19.8%	-1.6%	40.0%	-100.0%	3.5%	999.9%
1/80	1221	360	148	720	14	0	1242	-264
1/79	1375	326	139	875	10	0	1350	0
	-11.2%	10.4%	6.5%	-17.7%	40.0%	0.0%	-8.0%	999.9%
2/80	1029	360	150	700	12	0	1222	-288
2/79	1285	359	160	812	14	0	1345	0
	-19.9%	0.3%	-6.3%	-13.8%	-14.3%	0.0%	-9.1%	999.9%
3/80	828	280	125	700	12	0	1117	-116
3/79	710	246	111	823	40	38	1258	0
	16.6%	13.8%	12.6%	-14.9%	-70.0%	-100.0%	-11.2%	999.9%
4/80	453	200	85	680	20	80	1065	-248
4/79	515	187	80	719	41	110	1137	0
	-12.0%	7.0%	6.3%	-5.4%	-51.2%	-27.3%	-6.3%	999.9%
5/80	188	110	55	680	20	220	1085	-170
5/79	346	88	38	780	7	152	1065	0
	-45.7%	25.0%	44.7%	-12.8%	185.7%	44.7%	1.9%	999.9%
6/80	0	60	32	640	20	220	972	-216
6/79	0	57	26	743	42	162	1030	0
	0.0%	5.3%	23.1%	-13.9%	-52.4%	35.8%	-5.6%	999.9%
7/80	0	45	25	600	15	177	862	-358
7/79	0	43	18	698	209	121	1089	0
	0.0%	4.7%	38.9%	-14.0%	-92.8%	46.3%	-20.8%	999.9%
8/80	0	40	25	680	16	264	1025	-81
8/79	0	40	18	741	261	180	1240	0
	0.0%	0.0%	38.9%	-8.2%	-93.9%	46.7%	-17.3%	999.9%
SUMMER TOTAL								
	1142	595	285	4630	129	1261	6900	-1210
	1492	522	224	5159	710	1082	7697	0
	-23.5%	14.0%	27.2%	-10.3%	-81.8%	16.5%	-10.4%	999.9%
WINTER TOTAL								
	4845	1445	623	3520	66	0	5654	-962
	5124	1298	572	3994	175	169	6208	0
	-5.4%	11.3%	8.9%	-11.9%	-62.3%	-100.0%	-8.9%	999.9%
YEAR TOTAL								
	5987	2040	908	8150	195	1261	12554	-2172
	6616	1820	796	9153	885	1251	13905	0
	-9.5%	12.1%	14.1%	-11.0%	-78.0%	0.8%	-9.7%	999.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

Table B-14 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for Ohio Gas Company by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	104	93	41	155	14	0	302	-77
9/78	72	60	28	154	9	0	251	-1
	44.4%	55.0%	46.4%	0.6%	55.6%	0.0%	20.3%	-7600.0%
10/79	375	189	84	284	24	0	582	-47
10/78	475	116	57	257	113	0	543	0
	-21.1%	62.9%	47.4%	10.5%	-77.8%	0.0%	7.2%	999.9%
11/79	734	314	134	261	33	0	742	-65
11/78	751	206	103	246	144	0	699	1
	-2.3%	52.4%	30.1%	6.1%	-77.1%	0.0%	6.2%	-6600.0%
12/79	1141	460	19	279	44	0	979	-39
12/78	1097	395	183	289	111	0	979	0
	4.0%	16.5%	-89.6%	-3.5%	-60.4%	0.0%	0.0%	999.9%
1/80	1298	504	219	313	49	0	1084	-38
1/79	1435	531	247	329	123	0	1229	-1
	-9.5%	-5.1%	-11.3%	-4.9%	-60.2%	0.0%	-11.8%	-3700.0%
2/80	1084	428	187	276	42	0	933	-17
2/79	1322	531	243	328	27	0	1129	-1
	-18.0%	-19.4%	-23.0%	-15.9%	55.6%	0.0%	-17.4%	-1600.0%
3/80	871	359	157	245	36	0	797	-211
3/79	808	435	177	276	-77	156	967	-1
	7.8%	-17.5%	-11.3%	-11.2%	146.8%	-100.0%	-17.6%	********%
4/80	471	228	98	194	24	0	536	-44
4/79	551	316	127	236	-66	0	613	0
	-14.5%	-30.4%	-22.8%	-17.8%	136.4%	0.0%	-12.6%	999.9%
5/80	203	130	59	150	16	0	355	-176
5/79	191	171	60	205	-49	0	387	0
	6.3%	-24.0%	-1.7%	-26.8%	132.7%	0.0%	-8.3%	999.9%
6/80	33	69	33	165	13	0	280	-182
6/79	13	101	32	193	-54	0	292	0
	153.8%	-31.7%	3.1%	-14.5%	138.2%	0.0%	-4.1%	999.9%
7/80	4	62	30	179	13	0	284	-139
7/79	3	57	28	181	4	0	270	0
	33.3%	8.8%	7.1%	-1.1%	225.0%	0.0%	5.2%	999.9%
8/80	12	65	31	157	12	0	265	-208
8/79	17	57	22	159	36	0	274	0
	-29.4%	14.0%	40.9%	-1.3%	-66.7%	0.0%	-3.3%	999.9%
SUMMER TOTAL								
	1202	828	376	1284	110	0	2604	-873
	1322	878	354	1385	13	0	2630	-1
	-9.1%	-5.7%	6.2%	-7.3%	807.7%	0.0%	-1.0%	********%
WINTER TOTAL								
	5128	2065	716	1374	204	0	4535	-370
	5413	2098	953	1468	328	156	5003	-2
	-5.3%	-1.6%	-24.9%	-6.4%	-37.8%	-100.0%	-9.4%	********%
YEAR TOTAL								
	6330	2893	1092	2658	322	0	7139	-1243
	6735	2976	1307	2853	341	156	7633	-3
	-6.0%	-2.8%	-16.4%	-6.8%	-5.6%	-100.0%	-6.5%	********%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-15 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for River Gas Company by Sector (MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	16	48	17	146	19	0	230	0
9/78	0	41	20	113	-9	0	165	0
	999.9%	17.1%	-15.0%	29.2%	311.1%	0.0%	39.4%	0.0%
10/79	167	99	39	162	53	0	353	0
10/78	255	69	36	128	79	0	312	0
	-34.5%	43.5%	8.3%	26.6%	-32.9%	0.0%	13.1%	0.0%
11/79	491	205	83	184	61	0	533	0
11/78	444	161	62	142	87	0	452	0
	10.6%	27.3%	33.9%	29.6%	-29.9%	0.0%	17.9%	0.0%
12/79	817	311	130	196	76	0	713	0
12/78	783	269	112	153	139	0	673	0
	4.3%	15.6%	16.1%	28.1%	-45.3%	0.0%	5.9%	0.0%
1/80	993	375	157	242	27	0	801	0
1/79	1146	391	156	207	134	0	888	0
	-13.4%	-4.1%	0.6%	16.9%	-79.9%	0.0%	-9.8%	0.0%
2/80	972	378	158	283	-29	0	790	0
2/79	1336	433	174	194	7	0	808	0
	-27.2%	-12.7%	-9.2%	45.9%	-514.3%	0.0%	-2.2%	0.0%
3/80	711	284	118	202	7	0	611	0
3/79	621	322	126	164	-124	0	488	0
	14.5%	-11.8%	-6.3%	23.2%	105.6%	0.0%	25.2%	0.0%
4/80	446	197	80	141	-44	0	374	0
4/79	450	184	84	140	-6	0	402	0
	-0.9%	7.1%	-4.8%	0.7%	-633.3%	0.0%	-7.0%	0.0%
5/80	170	106	41	141	-17	0	271	0
5/79	173	121	48	161	-69	0	261	0
	-1.7%	-12.4%	-14.6%	-12.4%	75.4%	0.0%	3.8%	0.0%
6/80	34	61	22	121	-11	0	193	0
6/79	75	66	26	94	43	0	229	0
	-54.7%	-7.6%	-15.4%	28.7%	-125.6%	0.0%	-15.7%	0.0%
7/80	0	45	17	81	1	0	144	0
7/79	22	47	18	84	12	0	161	0
	-100.0%	-4.3%	-5.6%	-3.6%	-91.7%	0.0%	-10.6%	0.0%
8/80	0	44	16	101	2	0	163	0
8/79	7	38	21	92	16	0	167	0
	-100.0%	15.8%	-23.8%	9.8%	-87.5%	0.0%	-2.4%	0.0%
SUMMER TOTAL	833	600	232	893	3	0	1728	0
	982	566	253	812	66	0	1697	0
	-15.2%	6.0%	-8.3%	10.0%	-95.5%	0.0%	1.8%	0.0%
WINTER TOTAL	3984	1553	646	1107	142	0	3448	0
	4330	1576	630	860	243	0	3309	0
	-8.0%	-1.5%	2.5%	28.7%	-41.6%	0.0%	4.2%	0.0%
YEAR TOTAL	4817	2153	878	2000	145	0	5176	0
	5312	2142	883	1672	309	0	5006	0
	-9.3%	0.5%	-0.6%	19.6%	-53.1%	0.0%	3.4%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-16 Comparison Between 1978-79 Actual and 1979-80 Forecast Gas Demand for West Ohio Gas Company by Sector
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
9/79	25	158	98	276	120	0	652	-30
9/78	2	135	88	269	52	0	544	0
	1150.0%	17.0%	11.4%	2.6%	130.8%	0.0%	19.9%	999.9%
10/79	158	278	160	288	328	0	1054	-16
10/78	154	233	155	284	425	200	1297	0
	2.6%	19.3%	3.2%	1.4%	-22.8%	-100.0%	-18.7%	999.9%
11/79	464	555	316	291	594	0	1758	-43
11/78	422	466	324	284	407	0	1481	0
	10.0%	19.1%	-2.5%	2.5%	46.4%	0.0%	18.7%	999.9%
12/79	811	875	483	325	334	0	2017	-313
12/78	836	1050	553	322	96	0	2021	0
	-3.0%	-16.7%	-12.7%	0.9%	247.9%	0.0%	-0.2%	999.9%
1/80	1137	1173	581	350	221	0	2325	-382
1/79	1237	1209	684	353	422	0	2668	0
	-8.1%	-3.0%	-15.1%	-0.8%	-47.6%	0.0%	-12.9%	999.9%
2/80	1175	1210	565	343	-66	0	2072	-29
2/79	1383	1279	715	398	80	0	2472	0
	-15.0%	-5.4%	-21.0%	-8.8%	-182.5%	0.0%	-16.2%	999.9%
3/80	907	963	505	359	-137	0	1690	0
3/79	1012	1014	542	340	-258	0	1638	0
	-10.4%	-5.0%	-6.8%	5.6%	46.9%	0.0%	3.2%	0.0%
4/80	710	778	389	311	-265	0	1213	0
4/79	656	710	395	301	-204	0	1202	0
	8.2%	9.6%	-1.5%	3.3%	-29.9%	0.0%	0.9%	0.0%
5/80	338	440	235	284	-244	0	715	0
5/79	291	394	190	248	-185	0	647	0
	16.2%	11.7%	23.7%	14.5%	-31.9%	0.0%	10.5%	0.0%
6/80	114	239	133	282	-93	0	561	0
6/79	123	226	108	271	-55	0	550	0
	-7.3%	5.8%	23.1%	4.1%	-69.1%	0.0%	2.0%	0.0%
7/80	15	149	103	224	-11	0	465	0
7/79	16	141	93	190	28	0	452	0
	-6.3%	5.7%	10.8%	17.9%	-139.3%	0.0%	2.9%	0.0%
8/80	5	133	92	254	82	0	561	0
8/79	0	132	74	227	44	0	477	0
	999.9%	0.8%	24.3%	11.9%	86.4%	0.0%	17.6%	0.0%
SUMMER TOTAL								
	1365	2175	1210	1919	-83	0	5221	-46
	1242	1971	1103	1790	105	200	5169	0
	9.9%	10.4%	9.7%	7.2%	-179.0%	-100.0%	1.0%	999.9%
WINTER TOTAL								
	4494	4776	2450	1688	948	0	9862	-767
	4890	5018	2818	1697	747	0	10280	0
	-8.1%	-4.8%	-13.1%	-0.5%	26.9%	0.0%	-4.1%	999.9%
YEAR TOTAL								
	5859	6951	3660	3607	865	0	15083	-813
	6132	6989	3921	3487	852	200	15449	0
	-4.5%	-0.5%	-6.7%	3.4%	1.5%	-100.0%	-2.4%	999.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-17 Projected Supply and Demand for Eight Major Ohio Natural Gas Utilities
(MMCF)

COMPANY: CINN. GAS & ELEC.

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	3704	5537	9765	13462	14527	12849	11202	7905	5720	4712	4844	4833	37255	61805	99060
DEMAND	4741	6610	9343	13246	14287	12549	11202	7905	5720	4712	4844	4833	39365	60627	99992
DEFICIENCY	1037	1073	-422	-216	-240	-300	0	0	0	0	0	0	2110	-1178	932
% DEFICIENCY	21.9%	16.2%	-4.5%	-1.6%	-1.7%	-2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	-1.9%	0.9%

COMPANY: COLUMBIA GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	17886	27139	36639	49170	53599	41623	39840	29764	22710	18508	16908	17641	150556	220871	371427
DEMAND	18413	23875	34400	45321	53599	41623	39840	29764	22710	18508	16908	17641	147819	214783	362602
DEFICIENCY	527	-3264	-2239	-3849	0	0	0	0	0	0	0	0	-2737	-6088	-8825
% DEFICIENCY	2.9%	-13.7%	-6.5%	-8.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.9%	-2.8%	-2.4%

COMPANY: DAYTON POWER & LIGHT

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	2261	3363	6219	9511	10957	14396	11704	8939	5290	2590	2059	2164	26666	52787	79453
DEMAND	2520	3710	6177	8514	9934	9772	7763	5897	3905	2590	2059	2164	22845	42160	65005
DEFICIENCY	259	347	-42	-997	-1023	-4624	-3941	-3042	-1385	0	0	0	-3821	-10627	-14448
% DEFICIENCY	10.3%	9.4%	-0.7%	-11.7%	-10.3%	-47.3%	-50.8%	-51.6%	-35.5%	0.0%	0.0%	0.0%	-16.7%	-25.2%	-22.2%

COMPANY: EAST OHIO GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	26532	33234	36529	48479	53008	49089	42630	38944	33712	26952	24622	24117	208113	229735	437848
DEMAND	26532	33234	36529	48479	53008	49089	42630	38944	33712	26952	24622	24117	208113	229735	437848
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Table B-17 Projected Supply and Demand for Eight Major Ohio Natural Gas Utilities (Cont'd)
(MMCF)

COMPANY: NATIONAL GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	1029	999	1012	1355	1506	1510	1233	1313	1255	1188	1220	1106	8110	6616	14726
DEMAND	962	929	964	1109	1242	1222	1117	1065	1085	972	862	1025	6900	5654	12554
DEFICIENCY	-67	-70	-48	-246	-264	-288	-116	-248	-170	-216	-358	-81	-1210	-962	-2172
% DEFICIENCY	-7.0%	-7.5%	-5.0%	-22.2%	-21.3%	-23.6%	-10.4%	-23.3%	-15.7%	-22.2%	-41.5%	-7.9%	-17.5%	-17.0%	-17.3%

COMPANY: OHIO GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	379	629	807	1018	1122	950	1008	580	531	462	423	473	3477	4905	8382
DEMAND	302	582	742	979	1084	933	797	536	355	280	284	265	2604	4535	7139
DEFICIENCY	-77	-47	-65	-39	-38	-17	-211	-44	-176	-182	-139	-208	-873	-370	-1243
% DEFICIENCY	-25.5%	-8.1%	-8.8%	-4.0%	-3.5%	-1.8%	-26.5%	-8.2%	-49.6%	-65.0%	-48.9%	-78.5%	-33.5%	-8.2%	-17.4%

COMPANY: RIVER GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	230	353	533	713	801	790	611	374	271	193	144	163	1728	3448	5176
DEMAND	230	353	533	713	801	790	611	374	271	193	144	163	1728	3448	5176
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

COMPANY: WEST OHIO GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	9/79	10/79	11/79	12/79	1/80	2/80	3/80	4/80	5/80	6/80	7/80	8/80	SUMMER	WINTER	YEAR
SUPPLY	682	1070	1801	2330	2707	2101	1690	1213	715	561	465	561	5267	10629	15896
DEMAND	652	1054	1758	2017	2325	2072	1690	1213	715	561	465	561	5221	9862	15083
DEFICIENCY	-30	-16	-43	-313	-382	-29	0	0	0	0	0	0	-46	-767	-813
% DEFICIENCY	-4.6%	-1.5%	-2.4%	-15.5%	-16.4%	-1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.9%	-7.8%	-5.4%

Table B-18 Cincinnati Gas and Electric Company
Gas Consumption and Projected Requirements for Winter Heating Seasons
(November 1977 - March 1980)
(MMCF)

	NOV	DEC	JAN	FEB	MAR	Total
Residential						
1977/78	2,617	5,944	7,419	8,020	6,690	30,690
1978/79	2,892	4,917	7,126	7,768	5,703	28,406
1979/80*	2,835	5,445	6,171	5,804	5,097	25,352
Commercial						
1977/78	1,449	3,145	3,988	4,255	3,528	16,365
1978/79	1,662	2,773	3,896	4,247	3,102	15,680
1979/80*	1,738	3,161	3,552	3,402	3,001	14,854
Industrial						
1977/78	1,477	2,617	3,038	2,542	1,970	11,644
1978/79	2,801	3,340	3,069	3,162	3,049	15,421
1979/80*	2,999	3,466	3,983	3,873	3,912	18,233
Total						
1977/78	7,495	13,506	16,460	13,852	10,187	61,500
1978/79	8,617	12,378	16,401	14,259	9,556	61,211
1979-80*	9,343	13,246	14,287	12,549	11,202	60,627

*Projected

Table 8-19 Columbia Gas of Ohio
Gas Consumption and Projected Requirements for Winter Heating Seasons
(November 1977 - March 1980)
(MMCF)

	NOV	DEC	JAN	FEB	MAR	TOTAL
Residential						
1977/78	10,662	21,530	26,993	29,259	24,320	112,764
1978/79	11,560	18,157	26,093	27,715	20,585	104,110
1979/80*	12,128	19,002	23,588	22,865	19,976	97,559
Commercial						
1977/78	4,189	8,410	10,336	11,539	9,540	44,014
1978/79	4,654	7,408	10,490	11,487	8,297	42,336
1979/80*	4,843	7,489	9,764	9,513	8,227	39,836
Industrial						
1977/78	10,009	10,499	11,072	11,167	10,719	53,466
1978/79	11,499	12,385	14,729	14,411	13,442	66,466
1979/80*	13,054	13,500	14,960	14,260	13,760	69,534
Total						
1977/78	30,495	45,884	54,385	49,181	40,568	220,513
1978/79	31,633	43,882	57,019	52,514	38,616	221,664
1979/80*	34,400	45,321	53,599	41,623	39,840	214,783

*Projected

Table B-20 Dayton Power & Light
Gas Consumption and Projected Requirements for Winter Heating Seasons
(November 1977 - March 1980)
(MMCF)

	NOV	DEC	JAN	FEB	MAR	Total
Residential						
1977/78	2,393	4,845	6,414	6,848	5,766	26,266
1978/79	2,532	4,087	5,990	6,745	4,921	24,275
1979/80*	2,969	4,579	5,684	5,668	4,743	23,643
Commercial						
1977/78	673	1,198	1,488	1,630	1,449	6,438
1978/79	780	1,078	1,526	1,742	1,279	6,405
1979/80*	819	1,202	1,454	1,364	1,184	6,023
Industrial						
1977/78	1,074	1,426	1,841	1,994	1,917	8,252
1978/79	1,475	1,065	1,905	2,167	1,653	8,265
1979/80*	1,696	1,895	2,088	2,054	1,884	9,617
Total						
1977/78	4,553	8,452	10,895	12,072	9,174	45,146
1978/79	5,199	7,390	10,758	12,252	7,671	43,270
1979/80*	6,177	8,514	9,934	9,772	7,763	42,160

*Projected

Table B-21 East Ohio Gas
Gas Consumption and Projected Requirements for Winter Heating Seasons
(November 1979 - March 1980)
(MMCF)

	NOV	DEC	JAN	FEB	MAR	TOTAL
Residential						
1977/78	10,189	23,420	30,718	31,673	26,464	122,464
1978/79	12,030	21,378	29,799	31,085	23,147	117,439
1979/80*	13,724	22,314	27,118	25,883	24,407	113,446
Commercial						
1977/78	4,355	9,306	11,711	12,263	10,074	47,709
1978/79	4,927	8,552	11,794	12,331	9,005	46,609
1979/80*	5,285	8,517	10,258	9,791	9,252	43,103
Industrial						
1977/78	10,438	11,736	13,072	13,307	12,367	60,920
1978/79	11,101	12,372	13,815	14,535	12,737	64,560
1979/80*	11,336	12,507	13,398	12,862	12,192	62,295
Total						
1977/78	34,492	51,548	60,859	54,731	45,667	247,297
1978/79	35,027	48,612	61,427	58,636	39,409	243,111
1979/80*	36,529	48,479	53,008	49,089	42,630	229,735

*Projected